CDX-80

SERVICE MANUAL

REVISED

(US, E Model)

US Model
Canadian Model
AEP Model
E Model

SPECIFICATIONS

System: Compact disc digital audio system

Laser Diode Properties
- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: Continuous
- Laser output power: Less than 44.6 μW*

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Frequency response: 5–20,000 Hz ±3 dB

Harmonic distortion: 0.008% (1 kHz)

Dynamic range: 90 dB

Signal-to-noise ratio: 85 dB

Wow and flutter: Below measurable limit

General

Power requirements: 12 V DC car battery (negative ground)

Current drain: 800 mA (CD playback)
2 A (during disc loading or eject)

Operating temperature: −10°C–50°C (15°F–120°F)

Dimensions: Approx. 178 × 50 × 144 mm (w/h/d) (7 1/8 × 2 × 5 3/4 in.) including projecting parts and controls

Weight: Approx. 1.7 kg (3 lb 12 oz)

Supplied accessories
- Mounting hardware (1 set)
- Fuse (3.15 A) (1)
- Fuse (1 A) (2)

使用時は添付資料も参照のこと
Refer to the additional documents.

COMPACT DISC PLAYER

SONY®

FEATURES

- A DIN sized mobile CD player.
- Various play modes (shuffle play, program play, intro play, etc.) are available.
- Line inputs and outputs to connect to an optional cassette car stereo or equalizer.
- Quick recovery from sound skipping. The player can relocate the point where the play was interrupted.
- Illumination of the controls and disc insertion slot for easy operation even in the dark.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

TABLE OF CONTENTS

Section	*Title*	*Page*
	Specifications	1
	Features	2
	Servicing Notes	3
	Precautions	3
	Installation and Connections	4
	Location and Function of Controls	6
	Playing a Compact Disc	7
	Searching for the Desired Selection or Portion	8
	Playing the Selections in the Desired Order – Program play	8
	Playing the Selections in a Random Order – Shuffle play	9
	Scanning the Selections – Intro play	10
	Repeating the Selections	10
	Fuse Replacement	11
1.	**DISASSEMBLY**	
1-1.	Removal	12
2.	**ELECTRICAL ADJUSTMENTS**	
	PLL Free Run Frequency Adjustment	16
	Focus Offset Adjustment	17
	Tracking Offset Adjustment	17
	Tracking Gain Adjustment (rough adjustment)	18
	Focus Gain Adjustment (rough adjustment)	19
3.	**DIAGRAMS**	
3-1.	Mounting Diagram – Main Board – (Former type: US, E model)	21
3-2.	Mounting Diagram	24
3-3.	Schematic Diagram	29
4.	**EXPLODED VIEWS AND PARTS LIST**	35
5.	**ELECTRICAL PARTS LIST**	41
	Troubleshooting Guide	46

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SERVICING NOTES

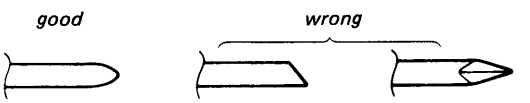
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

Flexible Circuit Board Repairing

1. Keep the temperature of the soldering iron at 270° ± 10°C during repairing.
2. Do not touch the soldering iron more than 4 seconds or 3 times on the same conductor of the circuit board.
3. Do not apply force on the conductor when soldering or unsoldering.

Tip of soldering iron



Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

PRECAUTIONS

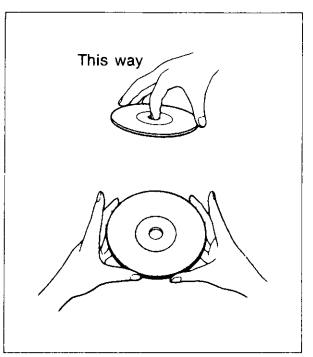
On operation
- **Before operating the unit for the first time or after replacing the battery, press the reset button.**
- If you insert a disc upside down, normally the unit will eject the disc.

On handling
- If your car was parked in direct sunlight and there was a considerable rise in temperature inside the car, allow the unit to cool off before operating.
- When transporting the unit, keep the unit horizontal.

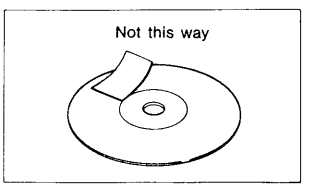
Notes on moisture condensation
On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit.
Should this occur, the unit will not operate. In this case, remove the disc and wait for about an hour until the moisture evaporates.

NOTES ON COMPACT DISCS

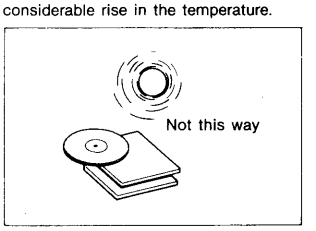
Handle the disc by its edge, and to keep the disc clean, do not touch the rainbow colored surface.



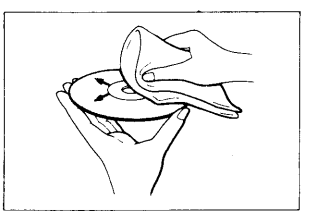
Do not stick paper or tape on the labeled surface.



Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in the direct sunlight where there can be a considerable rise in the temperature.



Before playing, clean the disc with an optional cleaning cloth.
Wipe the disc in the direction of the arrows.

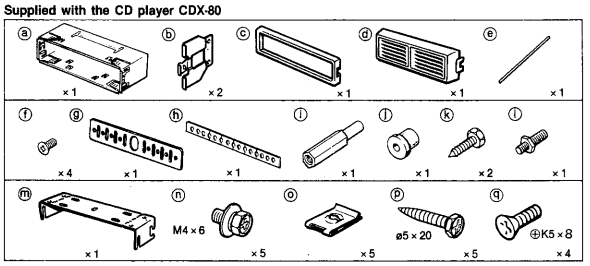


Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray intended for analog discs.

INSTALLATION AND CONNECTIONS

MOUNTING HARDWARE

Supplied with the CD player CDX-80



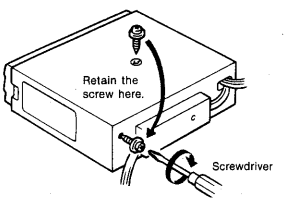
PRECAUTIONS

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for safe and secure installation.
- Be careful not to damage wiring or equipment on the other side of the firewall when you drill holes.

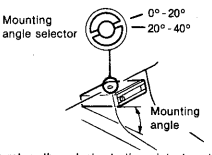
INSTALLATION

BEFORE INSTALLATION

1 Remove the transit screw from the top of the unit.
Retain the screw for future transportation as illustrated.

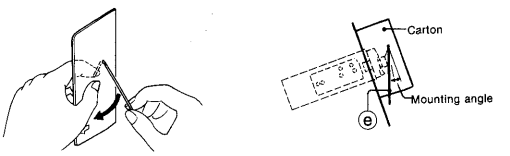


2 Adjust the mounting angle of the CD player according to that of the mounting position to keep balance of the internal anti-shock mechanism.
- If the mounting angle is less than 20° from the horizontal, no adjustment is necessary.
- If it is between 20° and 40°, turn the selector (see illustration) clockwise until it stops.

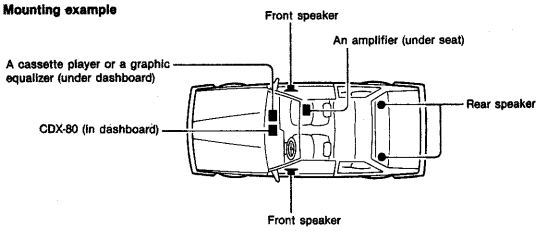


To return the selector to the original position, turn it counterclockwise while pressing it with a screwdriver.

How to measure the angle
Use the supplied stick and the protractor printed on the carton as illustrated.



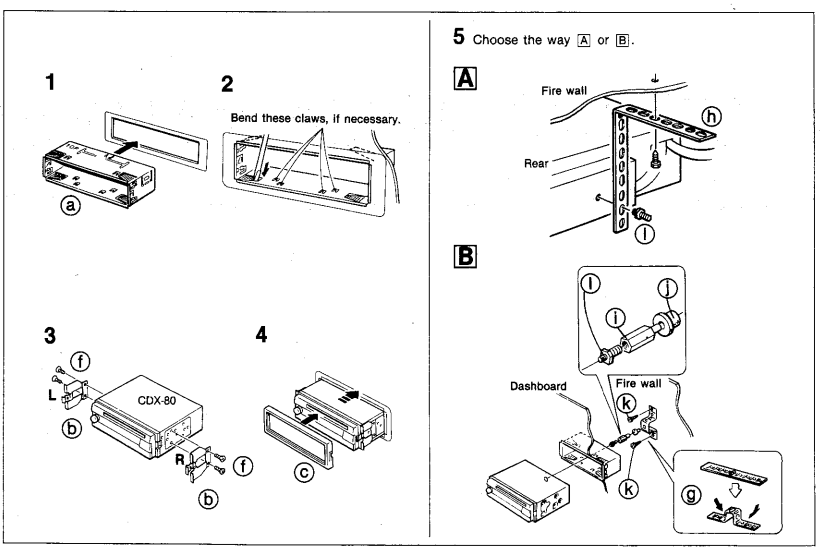
Mounting example



INSTALLATION EXAMPLES

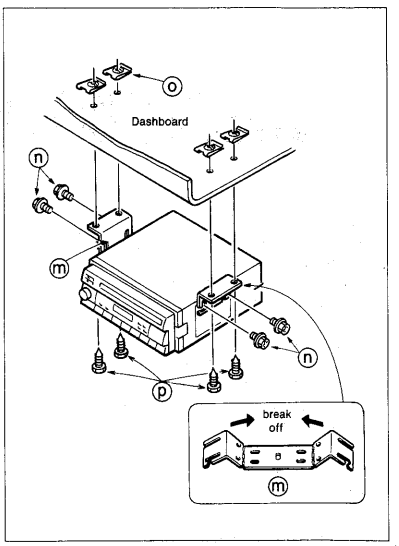
Installation in the dashboard

The parts used: ⓐ, ⓑ, ⓒ, ⓕ, ⓖ, ⓗ, ⓘ, ⓙ, ⓚ and ⓛ.



Installation under the dashboard

The parts used: ⓜ, ⓝ, ⓞ and ⓟ.



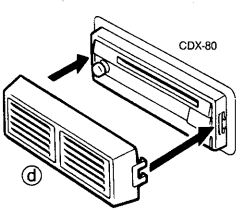
1 Mark the locations of the holes on the bottom of the dashboard using the part ⓜ as a template.
2 Drill 3 mm (⅛ in.) bolt holes.
3 Secure the pieces of part ⓜ which are broken off to the bottom of the dashboard.*
4 Secure the unit to part ⓜ.

* If the dashboard or the firewall is thin or made of plastic or a similar material, secure the unit with parts ⓞ and ⓟ. If it is made of metal plate, ⓞ are not necessary.

Notes
Be sure to use the supplied bolts ⓝ for mounting part ⓜ on the unit. Longer bolts will damage the unit.

TO LATCH THE PART ⓓ

The protects your car stereo set from being stolen.
Detach it when operating the unit.



CONNECTIONS

CAUTION

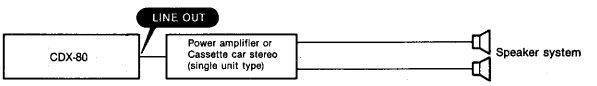
- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the red power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**
- Be sure to press the reset button after connection is completed.

Memory hold connection
When the yellow power input lead is connected as shown below, power will be always supplied to the memory circuit, even when the ignition key is switched off.

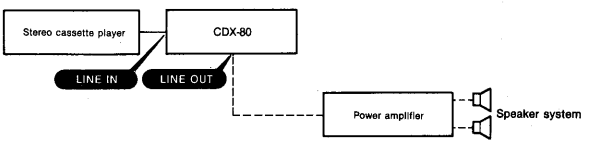
CONNECTION DIAGRAM

According to the unit you have, select the appropriate connection from the following three examples.

Example 1
Connecting to a power amplifier or cassette car stereo system (single unit type)
A detailed diagram of this example is shown below.



Example 2
Connecting to a stereo cassette player



Example 3
Connecting to a graphic equalizer

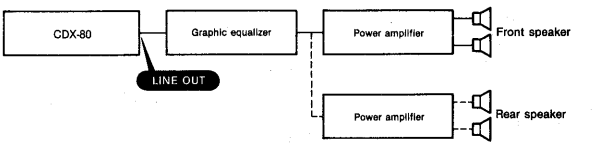
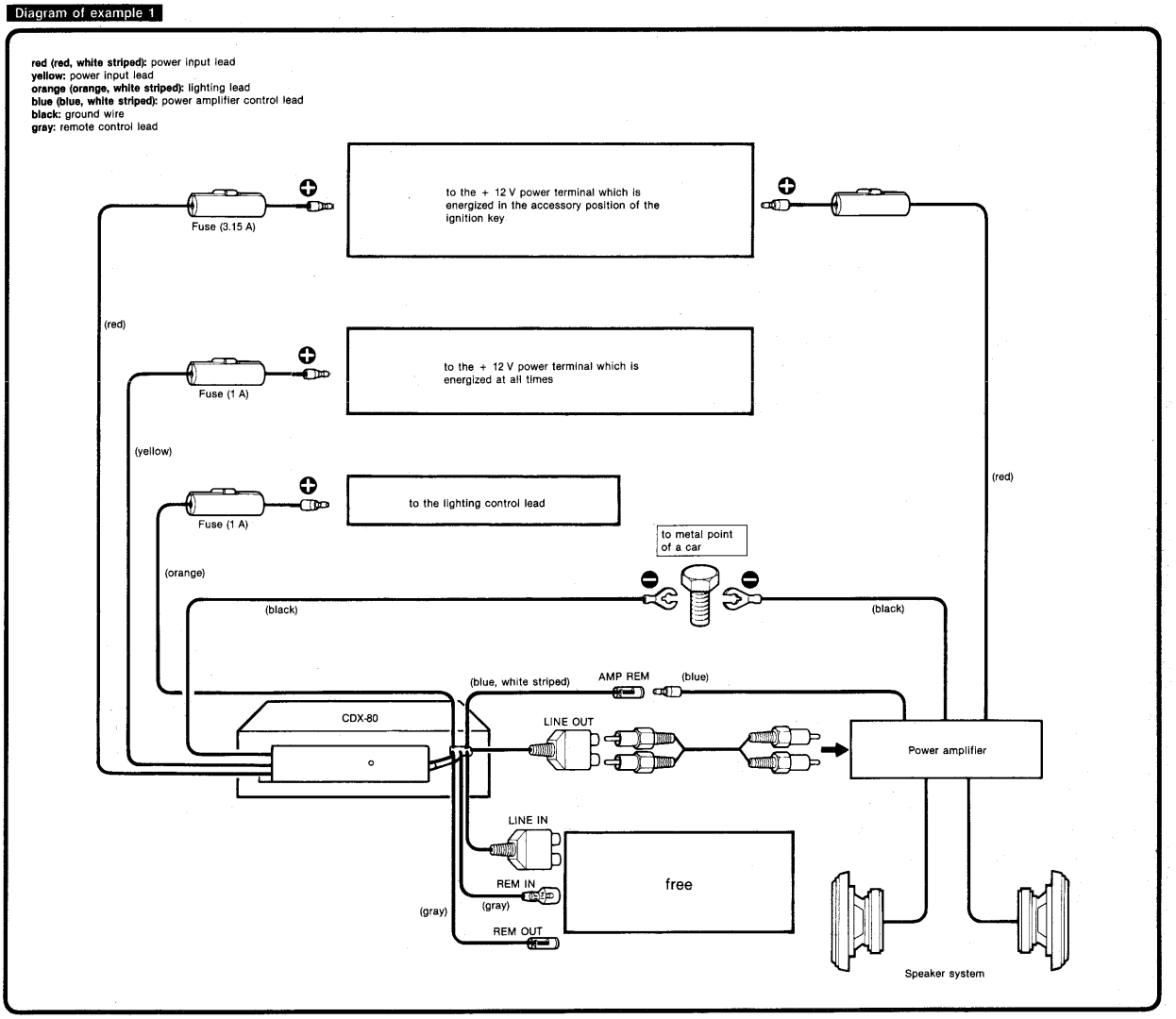
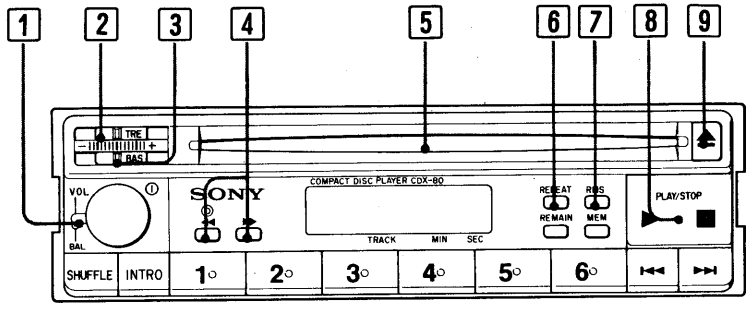
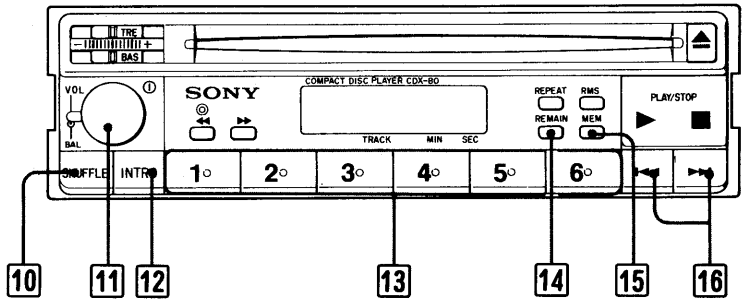


Diagram of example 1



LOCATION AND FUNCTION OF CONTROLS





Refer to the pages indicated in ● for details.

1 BAL (balance) control
Turn to adjust the balance of the right and left channels.

2 TRE (treble) control
Slide towards + to increase the treble response and towards – to decrease it.

3 BAS (bass) control
Slide towards + to increase the bass response and towards – to decrease it.

4 ◀◀ ▶▶ (manual search) buttons ❽

5 Disc insertion slot

6 REPEAT button ❿

7 RMS (program) button ❾

8 PLAY/STOP button and indicator (▶ ■) ❼

9 ⏏ (eject) button

10 SHUFFLE button ❾

11 Power switch/VOL (volume) control
Depress to turn on the unit. Press again to turn off.
Turn clockwise for more volume.

12 INTRO (introduction scanning) **button ❿**

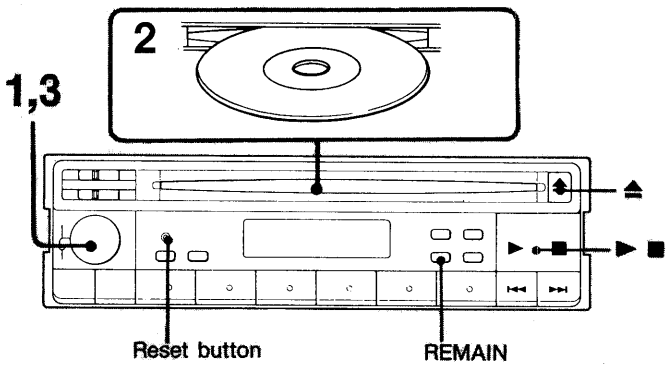
13 Number buttons ❽

14 REMAIN button ❼

15 MEM (memory) button ❽

16 ⏮/⏭ buttons ❽

PLAYING A COMPACT DISC



1 Depress the power switch.

2 Insert a disc with the label surface up.
The disc is loaded into the unit and play will start from the beginning of the disc.

3 Adjust the volume.

At the end of the disc
The track number indication returns to 1 and the playing stops. (▶ indicator disappears.)

To stop during play
Press ▶ ■. (▶ indicator disappears.)
To restart playing from the same point, press again.

To remove the disc
Press ⏏.

Note
When a disc is loaded, the DISC indicator lights. Do not try to insert another disc when one has already been inserted. Doing so may damage the unit.

The unit will automatically enter the stop mode when...
The car ignition key is turned off during play. If you turn the key to the IGN (ignition) or ACC (accessory) position again within 15 seconds, the unit will restart the play.

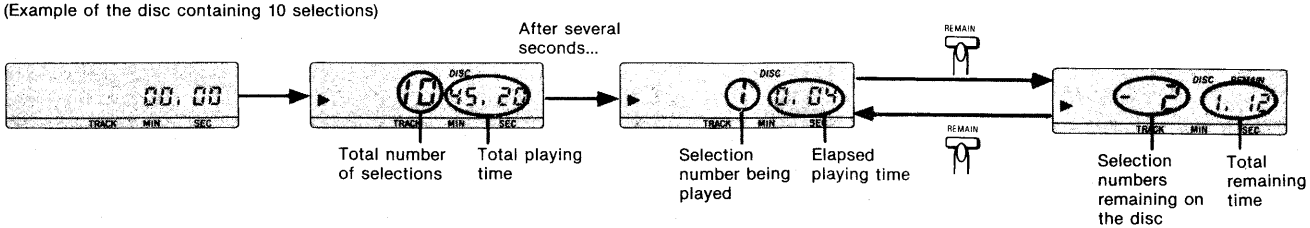
Before operating the unit for the first time or after replacing the battery, press the reset button with a pointed object.

Important
Since the CD system offers a wide dynamic range, the peaks of the high level inputs are recorded with high fidelity, and the noise level is very low. Do not turn up the volume while listening to a portion with no audio signals or with very low input levels. If you do, the speakers may be damaged when a peak level portion is played.

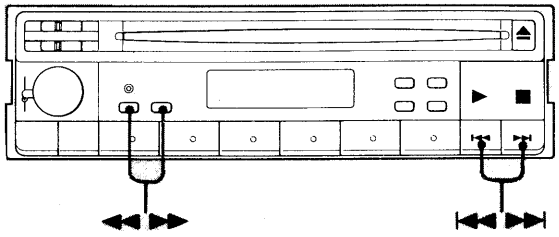
Display during play

When the disc is loaded into the unit:

(Example of the disc containing 10 selections)



SEARCHING FOR THE DESIRED SELECTION OR PORTION



To locate the beginning of a desired selection (AMS*)

To locate the selection being played To locate a previous selection	**Press** ⏮.** Keep ⏮ pressed.
To locate the next selection To locate a selection ahead	**Press** ⏭.** Keep ⏭ pressed.

* AMS is an abbreviation of Automatic Music Sensor.
** Each time the button is pressed, the track number will change by one.

To search for a particular point in a selection (manual search)

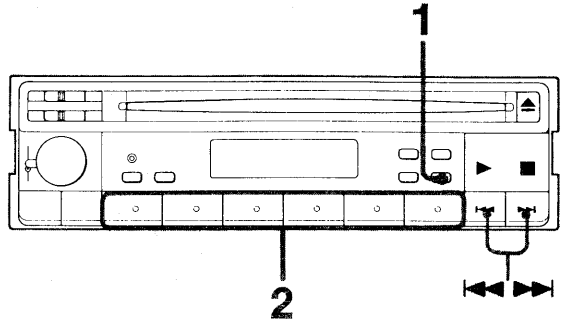
To go back at high speed	Keep ◀◀ pressed.
To go ahead at high speed	Keep ▶▶ pressed.

"– –" indicator
When you have passed the end of the disc by keeping the button pressed, the time counter displays "– –". To return to a normal display, press the ◀◀ or ⏮ button.

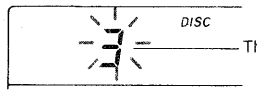
PLAYING THE SELECTIONS IN THE DESIRED ORDER—Program play

You can program and play up to 6 selections in any desired order. You can program before loading the disc to allow you to refer to the label or while playing.

How to program

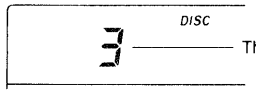


1 Select the desired selection by using ⏮ or ⏭, and press MEM.



The track number is flashing.

2 Press the desired number button (1 to 6) while the track number is flashing.



The track number lights.

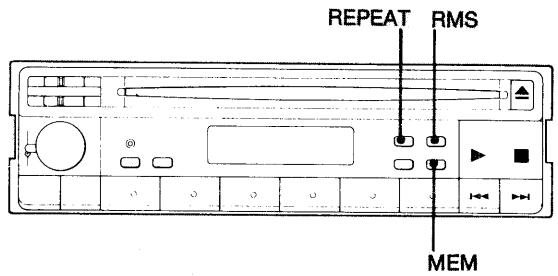
3 Repeat the above steps for all the other selections to be programmed (up to 6 selections).
(See the next page for playing the programmed selections.)

Program is canceled in the following cases
- The RMS button is pressed during program play.
  The RMS indicator disappears and the unit returns to the normal playing mode.
- The ▶ ■ button or ⏏ button is pressed.
  The normal play will begin, when you start playing again.

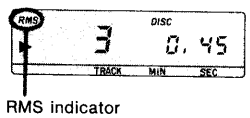
To switch from the program play to the other playing modes or vice versa
Press the RMS button. As long as the program is not canceled, you can switch the playing modes by simply pressing the RMS button at any time.

PLAYING THE SELECTIONS IN THE DESIRED ORDER—Program play

How to play the programmed selections



First, program the selections. And insert the disc and press RMS.
RMS indicator lights and the unit starts playing from the selection programmed on number button 1.



RMS indicator

At the end of the last programmed selection
The unit returns to the first selection and play continues.

To check the programmed selections
Press the number button.

To reprogram the selection
You can reprogram the previously programmed number. The previous program will be erased.

To clear all the programmed selections

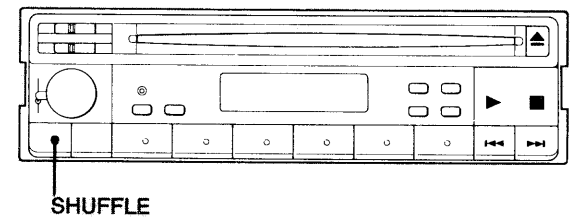
1 **Press MEM.** The track number flashes.

2 **Press REPEAT while the track number is flashing.**
The program is canceled. .

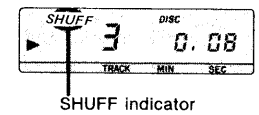
3 **Press MEM to stop the flashing.**

PLAYING THE SELECTIONS IN A RANDOM ORDER—Shuffle play

The unit plays all the selections or the programmed selections (up to 6 selections) once in a random order.



Insert a disc and press SHUFFLE.
SHUFF indicator lights and the unit starts playing.



SHUFF indicator

After playing all the selections once, the unit stops.

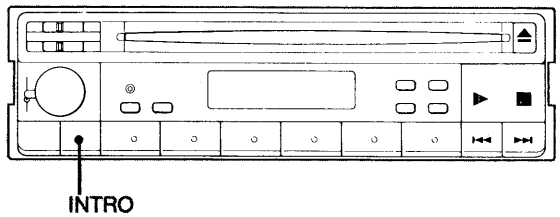
Shuffle play of the programmed selections
Press SHUFFLE during program play.

To cancel shuffle play
Press SHUFFLE. The SHUFF indicator disappears, and the unit returns to normal play.

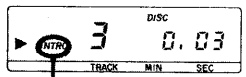
To locate the next random selection
Press the ▶▶I button. (You cannot go back to the previous selection even if you press the **I◀◀** button.)

SCANNING THE SELECTIONS—Intro play

"Intro play" is very convenient for searching for a desired selection. Scanning stops at the beginning of each selection and plays for approx. 10 seconds. You can scan all the selections on the disc or only the programmed selections.



Press INTRO.
The INTRO indicator lights and the unit starts scanning from the following selection.

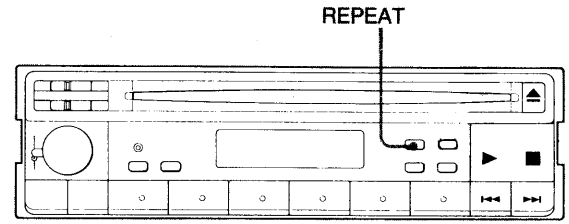


INTRO indicator

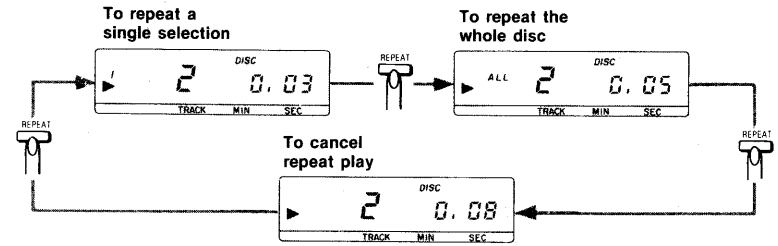
When you find the desired selection during scanning
Press INTRO again. The unit starts playing from that selection.

REPEATING THE SELECTIONS

You can repeat a single selection or the whole disc by pressing the REPEAT button during playing or in the stop mode.



Press REPEAT. Each time REPEAT is pressed, the display is switched as follows.

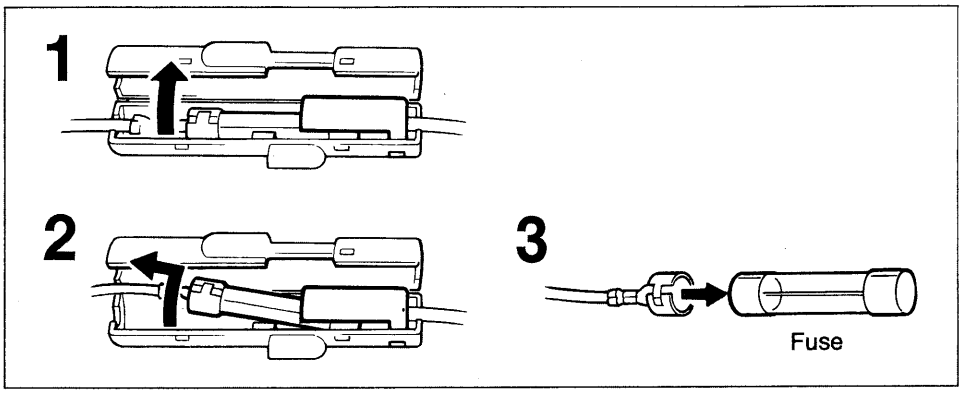


Press REPEAT repeatedly until the indicator (1 or ALL) disappears.

FUSE REPLACEMENT

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction.

Warning
Use a 3.15 ampere fuse for the power input lead, a 1 ampere fuse for the memory circuit and for the lighting control. Use of a higher amperage fuse may cause serious damage.



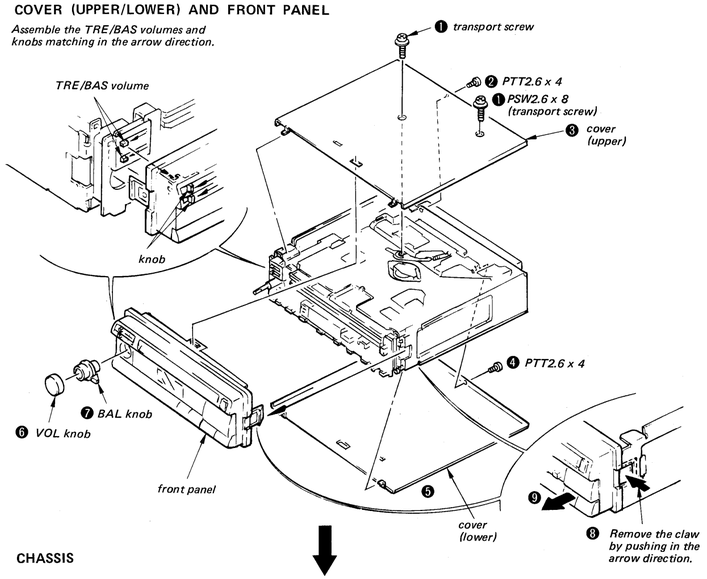
SECTION 1
DISASSEMBLY

1-1. REMOVAL

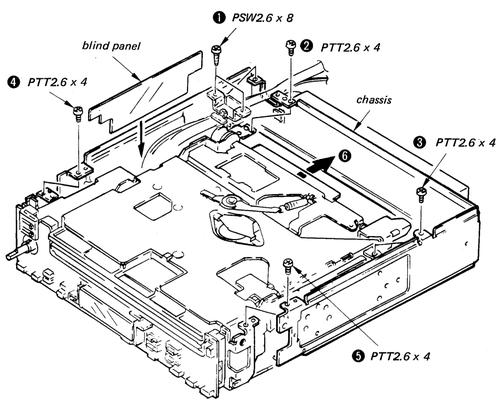
Note: Follow the disassembly procedure in the numerical order given.

COVER (UPPER/LOWER) AND FRONT PANEL

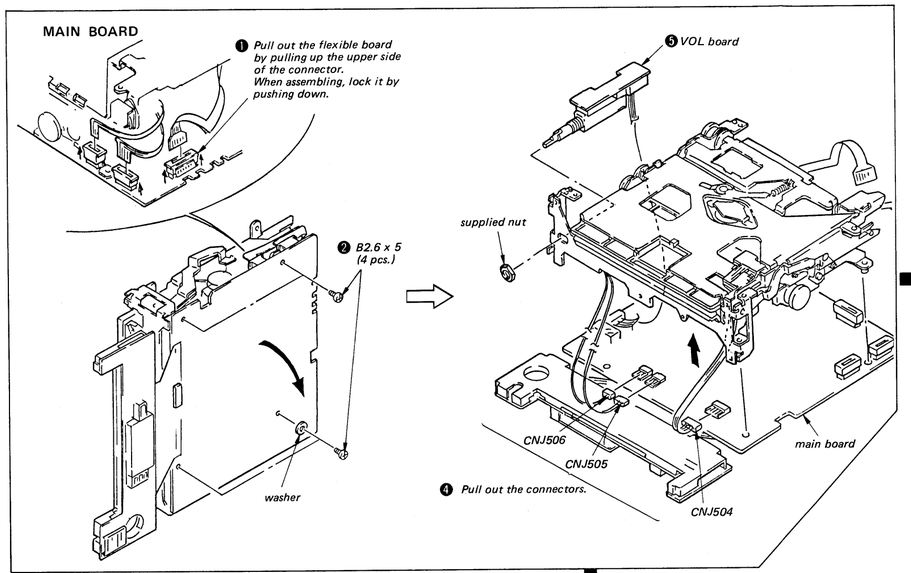
Assemble the TRE/BAS volumes and knobs matching in the arrow direction.



CHASSIS

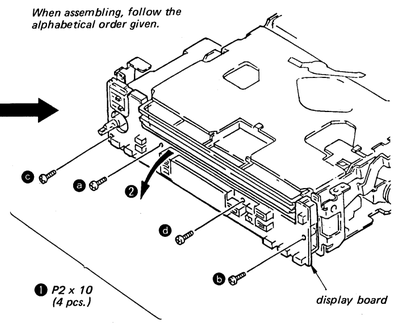


MAIN BOARD

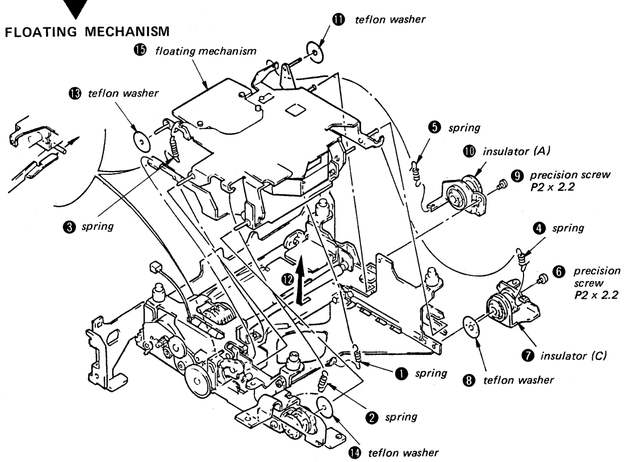

❶ Pull out the flexible board by pulling up the upper side of the connector. When assembling, lock it by pushing down.
❷ B2.6 x 5 (4 pcs.)
washer
❺ VOL board
supplied nut
CNJ506
CNJ505
CNJ504
main board
❹ Pull out the connectors.

DISPLAY BOARD

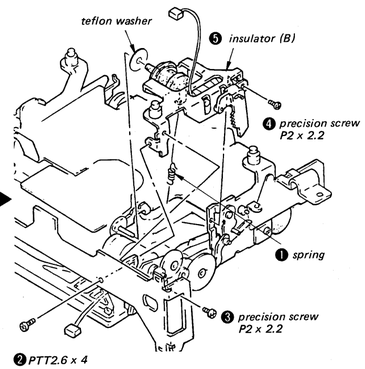
When assembling, follow the alphabetical order given.



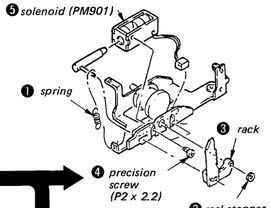
FLOATING MECHANISM



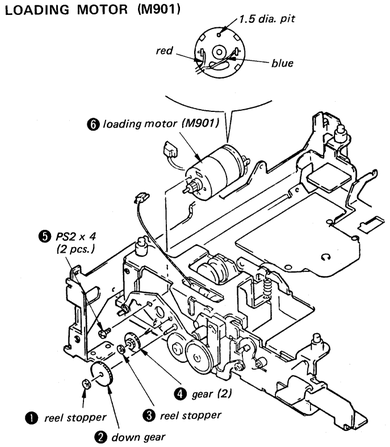
INSULATOR (B)



SOLENOID (PM901)

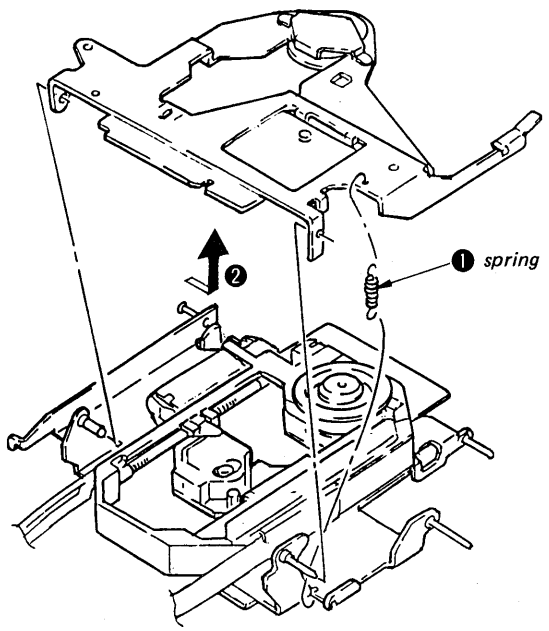


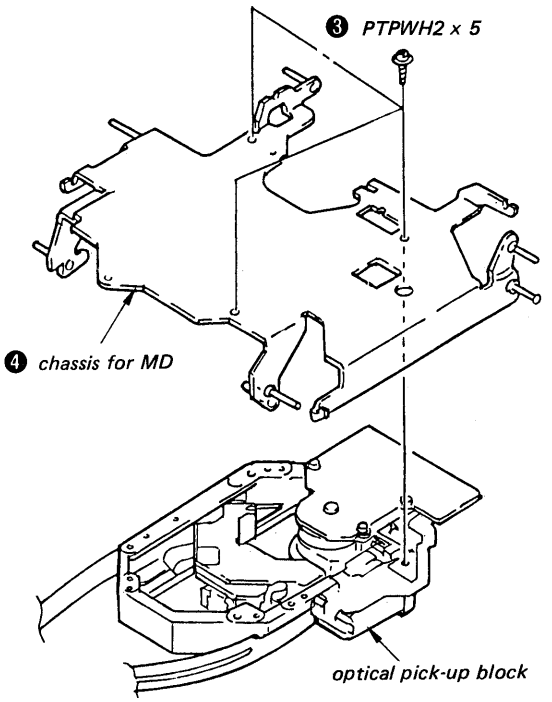
LOADING MOTOR (M901)



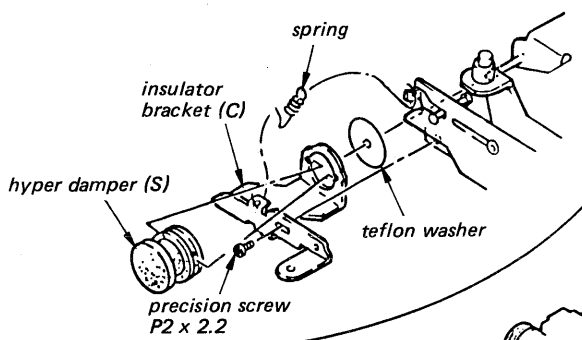
FLOATING MECHANISM
(See page 13.)

OPTICAL PICK-UP BLOCK

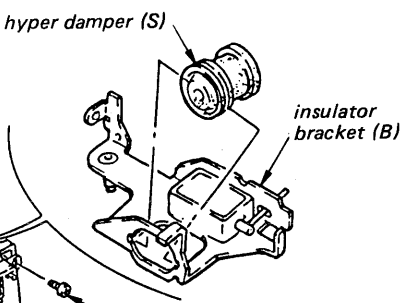


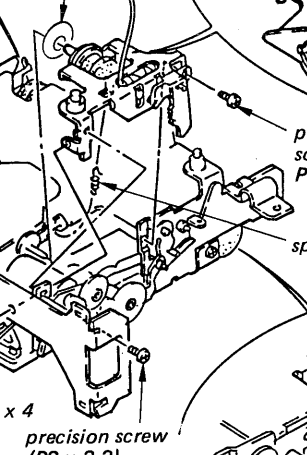


• DAMPER (C)

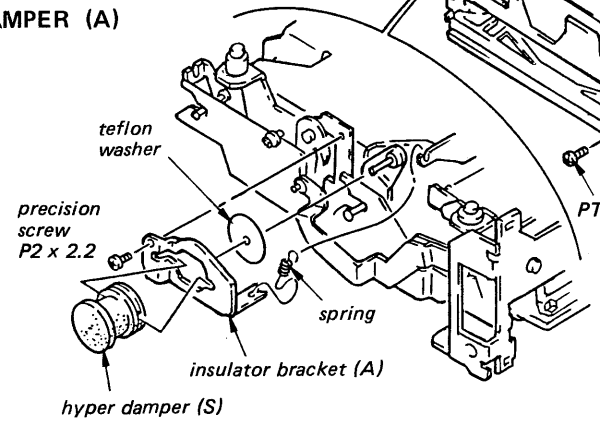


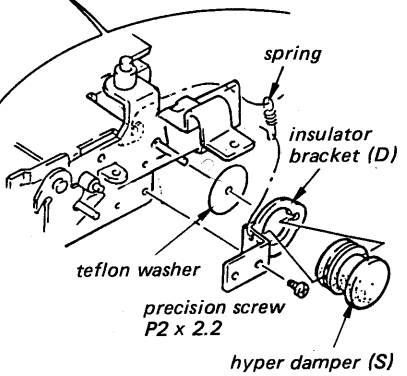
• DAMPER (B)





• DAMPER (A)





• DAMPER (D)

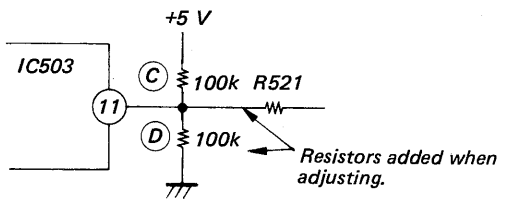
SECTION 2
ELECTRICAL ADJUSTMENTS

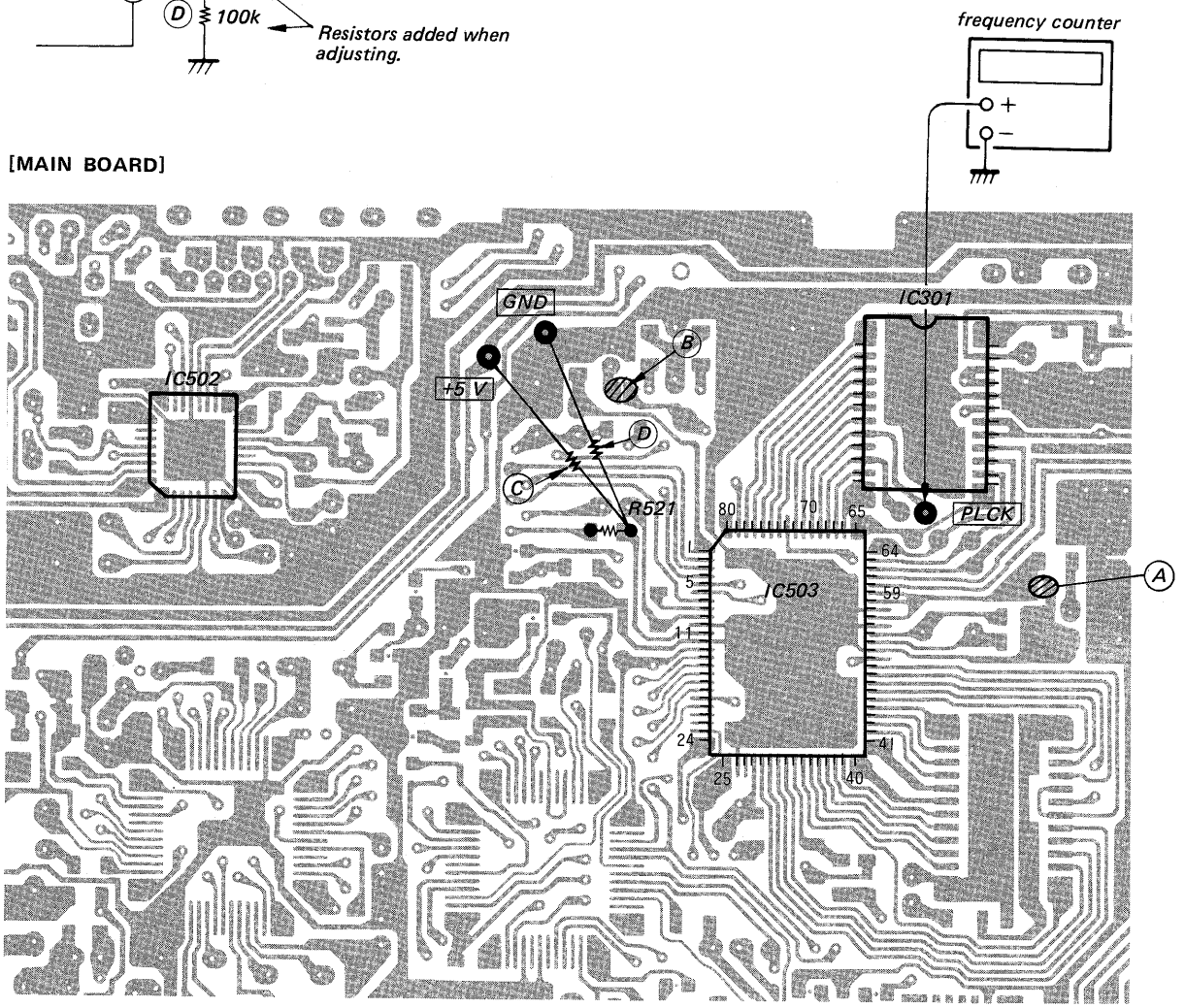
1. Perform adjustments as given.
2. Be sure to use the disc "YEDS-18" parts code: 3-702-101-01, but only when indicated.
3. Power supply voltage: DC 14.4 V (more than 2A)

PLL Free Run Frequency Adjustment

Procedure:

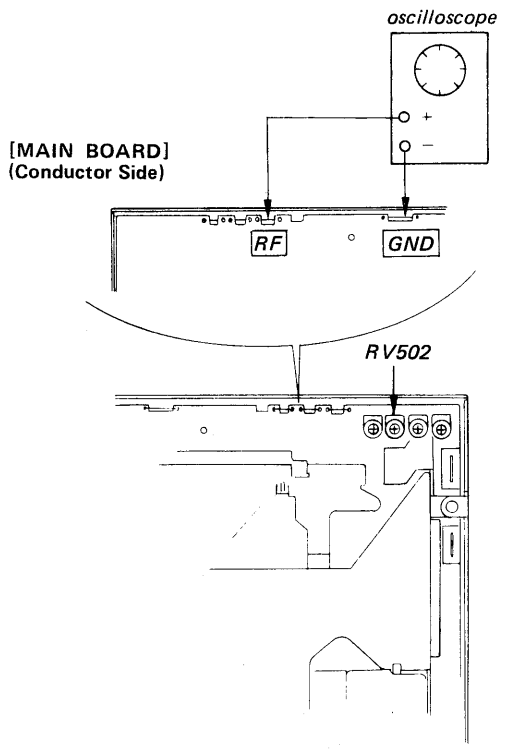
1. Solder-bridge the main board point Ⓐ. (IC503 pin 59 is grounded)
2. Unsolder main board point Ⓑ. (Disconnect IC503 pin 5)
3. Connect 100 kΩ resistors to Ⓒ, Ⓓ. (This is to adjust the IC503 pin 11 voltage to 2.5 V)
4. Connect the frequency counter to main board test point PLCK (IC503 pin 70).
5. Turn the power switch on (Do not use the disc), then adjust RV505 so that the frequency is 4.3218 MHz ±10 kHz.
6. After adjusting, reset 1, 2 and 3 as original.





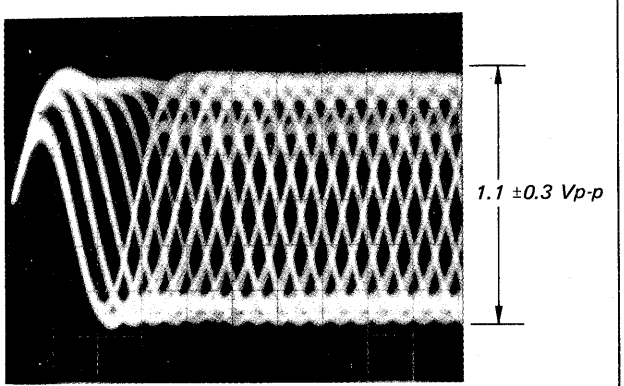
Focus Offset Adjustment

Procedure:



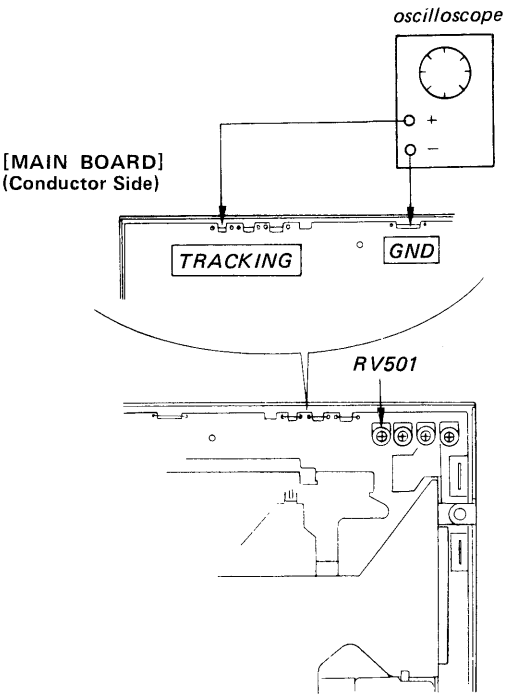
1. Connect the oscilloscope to main board test point RF.
2. Put the set into play mode by loading the disc.
3. Adjust main board RV502 so that the oscilloscope waveform eye pattern is good.
   A good eye pattern means that the diamond shape (◇) in the center of the oscilloscope can be clearly distinguished.

Volt/Div: 200 mV
Time/Div: 0.5 µSec



Tracking Offset Adjustment

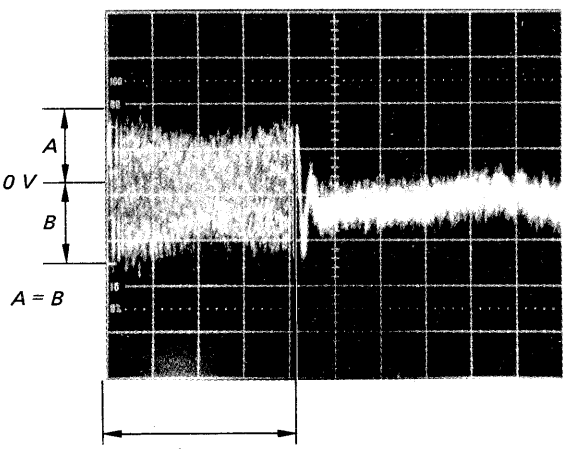
Procedure:



1. Connect the oscilloscope to main board test point TRACKING.
2. Put the set into play mode by loading the disc.
3. Press the |◀◀ or ▶▶| (or ◀◀ , ▶▶) button, then check the traverse waveform*.
4. Adjust RV501 (main board) so that oscilloscope reading is symmetrical in relation to 0 V.

*Traverse waveform: This is the tracking error waveform appears when crossing the track.

Volt/Div: 0.5 V
Time Div: 2 mSec
Center 0 V



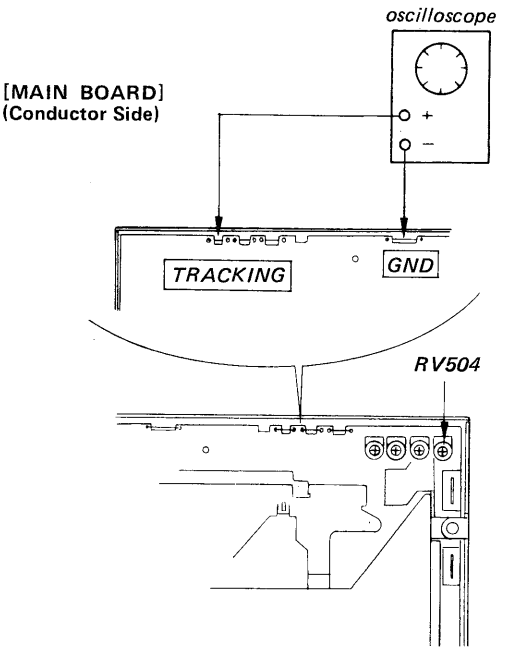
Tracking Gain Adjustment (rough adjustment)

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV504

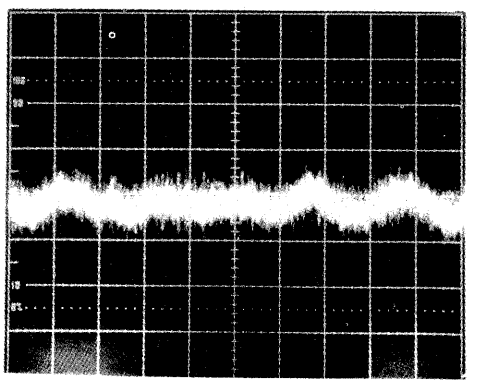
This adjustment should be performed after focus offset and tracking offset adjustment is completed.

Procedure:



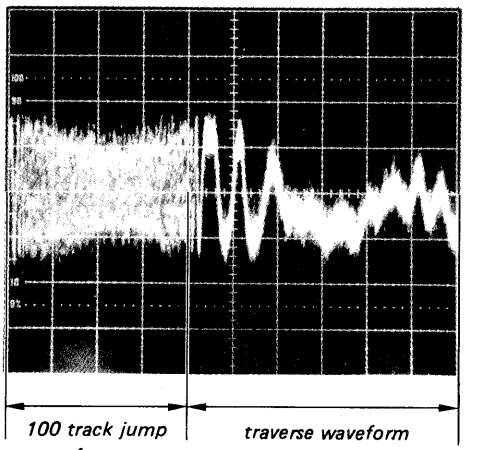
1. Connect the oscilloscope to main board test point TRACKING .
2. Put the set into play mode by loading the disc.
3. Turn main board RV504 counterclockwise, then check the ocilloscope waveform.
   Fix RV504 to the position that the waveform disappears.

Volt/Div: 0.5 V
Time/Div: 2 mSec



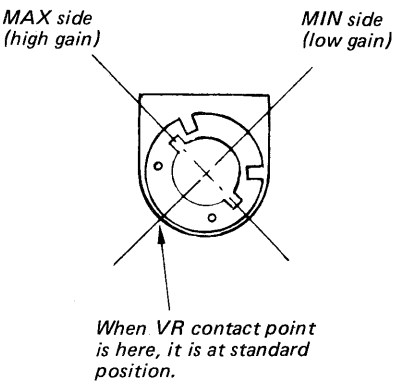
waveform when the wave appears

- **When gain is lowered . . .**
  When selecting by pressing |◀◀ or ▶▶| button, brake application is poor because of low tracking gain. Therefore, the traverse waveform appears after the 100 track jump waveform, then the selection will be located slowly.



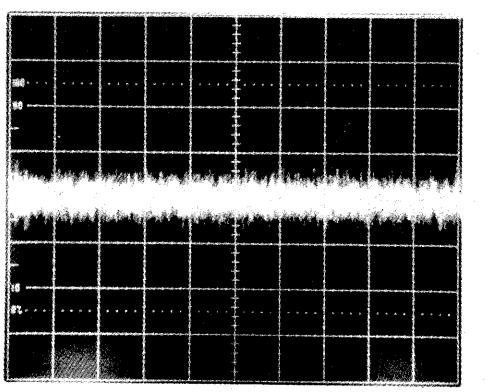
100 track jump waveform *traverse waveform*

- **When gain is highered . . .**
  Operation noise is heard due to a scratch or dust, then operation will be instability.



When VR contact point is here, it is at standard position.

RV503 standard position



waveform when the wave disappeared

SECTION 3
DIAGRAMS

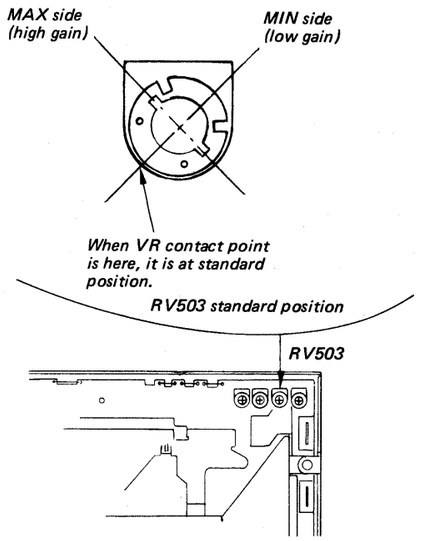
Focus Gain Adjustment (rough adjustment)

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV503

Procedure:

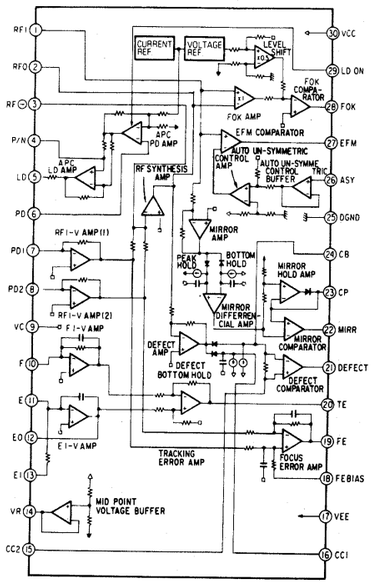
1. Set RV503 (main board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis devise. If there is, turn RV503 slightly counter-clockwise.



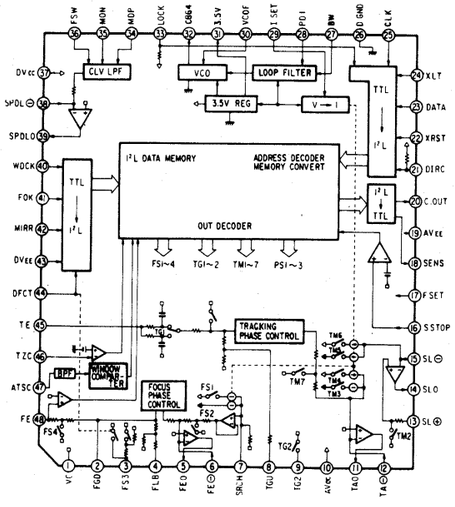
- **When gain is lowered . . .**
  The set does not play because of no focus operation.
- **When gian is highered . . .**
  Operation noise is heard due to a scratch or a dust, then operation will be instability.

• IC BLOCK DIAGRAMS

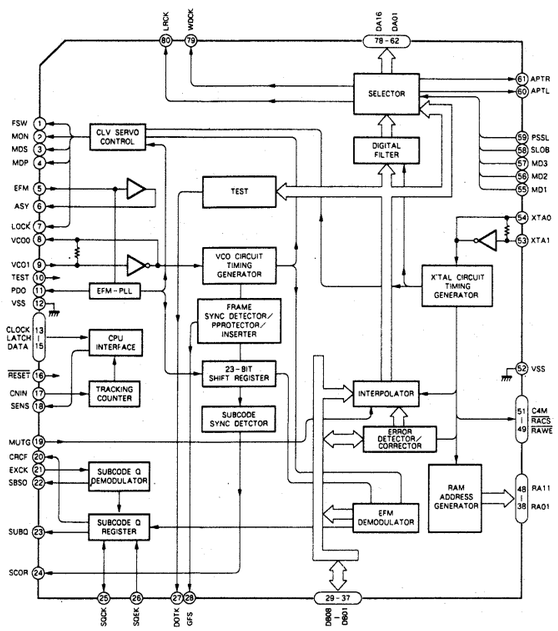
IC501 CXA-1081Q



IC502 CXA1082Q



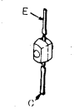
IC503 CXD1130Q



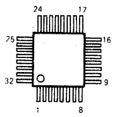
• Semiconductor Lead Layouts

2SA812
2SA1344
2SA1510
2SB1123
2SC2712
2SC3395
2SC3398
2SD1623
DTB113EK
DTB123YK
DTC114EK
DTD113ZK

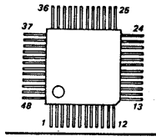
PN147-LF



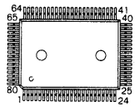
CXA1081Q



CXA1082AQ
MB88505-530M
MB88505-589M



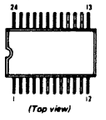
CXD1130Q



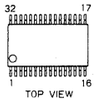
MARKING SIDE VIEW

L272M

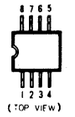
LC3516AML-15
PCM551-1P-S



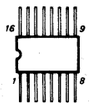
M54940FP



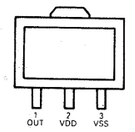
M5203FP
μPC4560G2



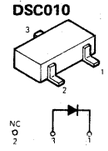
MB88201-534M
TC4053BF



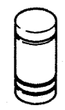
S-8054HN



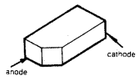
DSC010



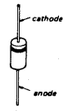
DLS1585



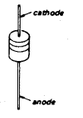
LN1451C



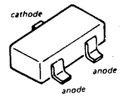
1SS106
10E2
ERB12-04



RD5.6ES-B3
RD7.5ES-B2
RD10ES-B2



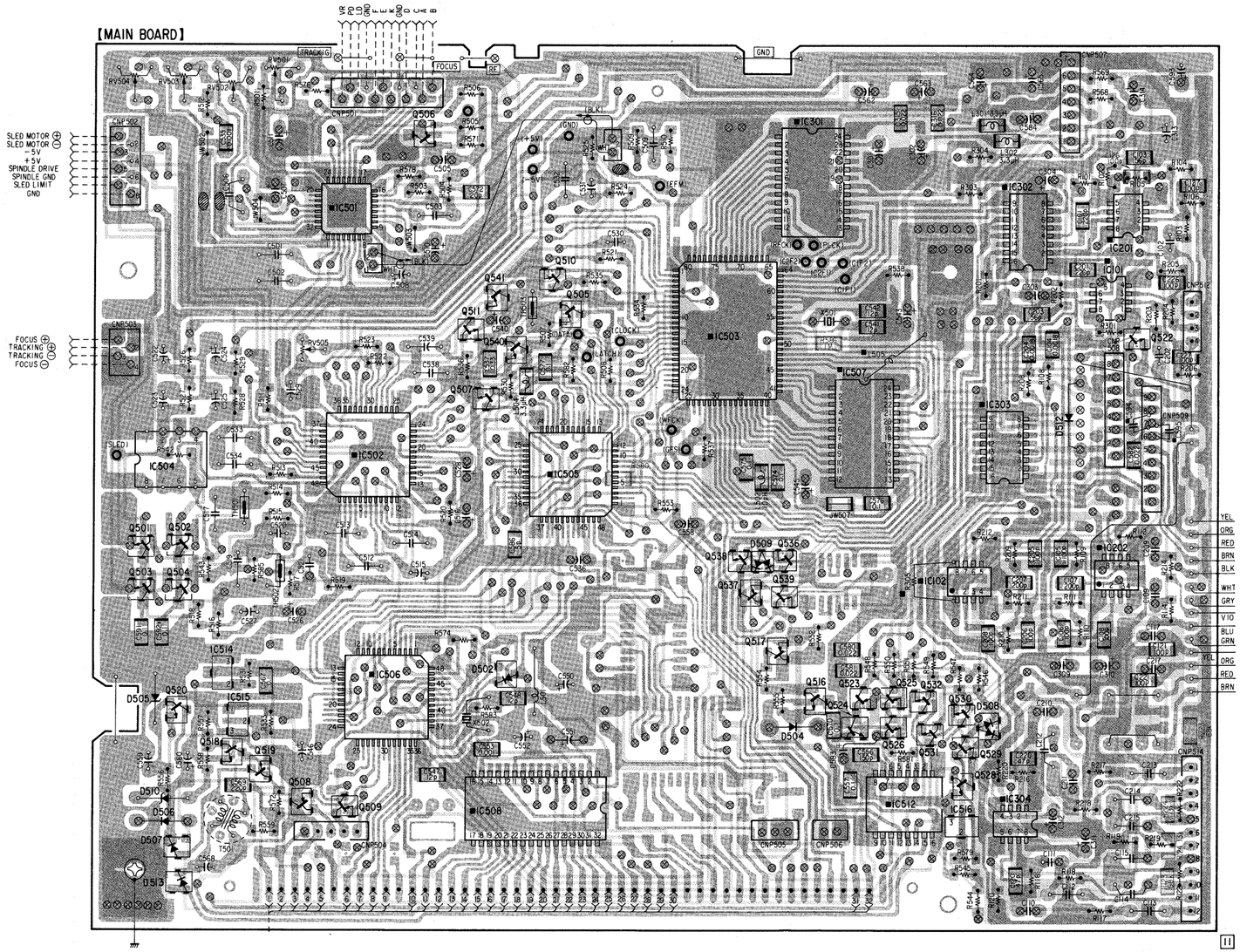
DSB015



CDX-80

3-1. MOUNTING DIAGRAM – MAIN BOARD –
(Former Type: US, E Model)

– Conductor Side –



3-2. MOUNTING DIAGRAM
– Conductor Side –

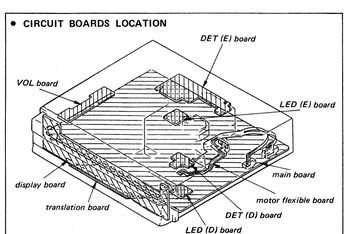
● See page 20 for Semiconductor Lead Layouts.

Note on Schematic Diagram:
- All capacitors are in μF unless otherwise noted. pF : μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ⏚ : B+ Line
- ⏚ : B– Line
- ▭ : adjustment for repair.
- ⇒ : CD signal path.
- Power voltage is 14.4 V dc and fed with the regulated dc power supply from ACC and BACK UP terminals.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a VOM (50 kΩ/V).
  no mark : CD playing mode
  LOAD : during disc loading in
  UNLOAD: during disc loading out
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in CD playing mode by using oscilloscope.
  Voltage variations may be noted due to normal production tolerances.

Note on Mounting Diagram:
- Color code or sleeving over the end of the jacket.

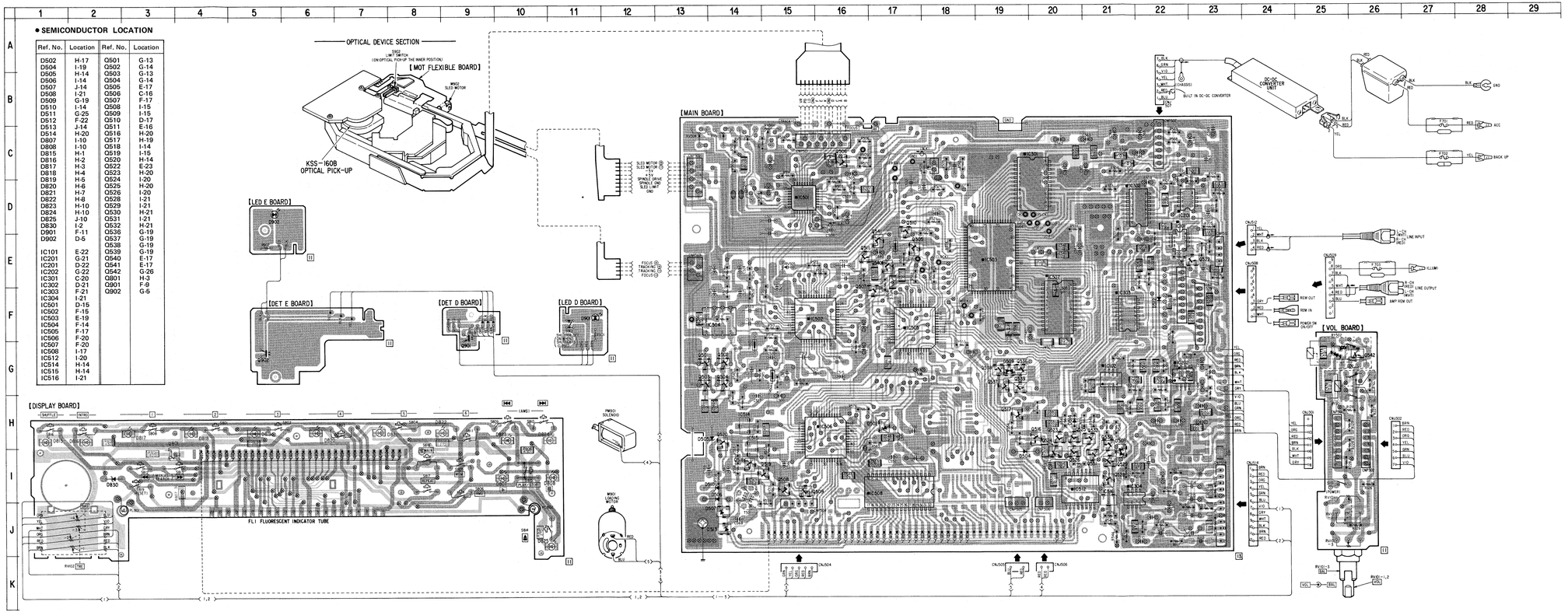
- o—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⊗ : Through hole.
- ▨ : component-side pattern.

● **CIRCUIT BOARDS LOCATION**



● **SEMICONDUCTOR LOCATION**

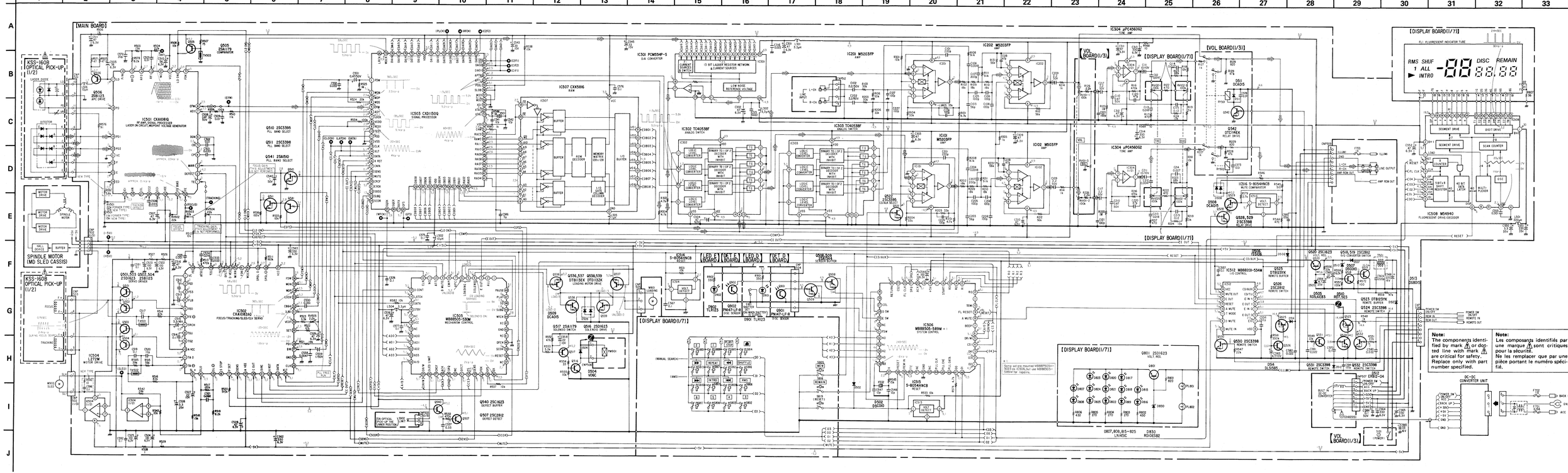
Ref. No.	Location	Ref. No.	Location
D502	H-17	Q501	G-13
D504	I-19	Q502	G-14
D505	H-14	Q503	G-13
D506	I-14	Q504	G-14
D507	J-14	Q505	E-17
D508	I-21	Q506	C-16
D509	G-19	Q507	F-17
D510	I-14	Q508	I-15
D511	G-25	Q509	I-15
D512	F-22	Q510	D-17
D513	J-14	Q511	E-16
D514	H-20	Q516	H-20
D807	I-10	Q517	H-19
D808	I-10	Q518	I-14
D815	H-1	Q519	I-15
D816	H-2	Q520	H-14
D817	H-3	Q522	E-23
D818	H-4	Q523	H-20
D819	H-5	Q524	I-20
D820	H-6	Q525	H-20
D821	H-7	Q526	I-20
D822	H-8	Q528	I-21
D823	H-10	Q529	I-21
D824	H-10	Q530	H-21
D825	J-10	Q531	I-21
D830	I-2	Q532	H-21
D901	F-11	Q536	G-19
D902	D-5	Q537	G-19
		Q538	G-19
IC101	E-22	Q539	G-19
IC201	G-21	Q540	E-17
IC201	D-22	Q541	E-17
IC202	G-22	Q842	G-26
IC301	C-20	Q901	H-3
IC302	D-21	Q901	F-9
IC303	F-21	Q902	G-5
IC304	I-21		
IC501	D-15		
IC502	F-15		
IC503	E-19		
IC504	F-14		
IC505	F-17		
IC506	F-20		
IC507	F-20		
IC508	I-17		
IC512	I-20		
IC514	H-14		
IC515	H-14		
IC516	I-21		



3-3. SCHEMATIC DIAGRAM • See page 24 for notes.

CDX-80 CDX-80

CDX-80


[MAIN BOARD]
KSS-160B OPTICAL PICK-UP (1/2)
SPINDLE MOTOR (MD SLED CASSIS)
KSS-160B OPTICAL PICK-UP (1/2)
IC501 CXA2581Q RF AMP/ SIGNAL PROCESSOR/ LASER DIODE CIRCUIT/ MONITOR VOLTAGE GENERATOR
IC502 CXA1082AQ FOCUS/TRACKING/SLED/SPDL SERVO
IC503 CXD1130Q SIGNAL PROCESSOR
IC504 L272M MOTOR DRIVE
IC505 M58850-330M MECHANISM CONTROL
IC506 M58805-589M SYSTEM CONTROL
IC507 CXK5816 RAM
IC508 M54940 FLUORESCENT DRIVE/DECODER
IC509 S-80546NCB RESET
IC510 S-80546NCB MUTE COMPARATOR
IC512 M88820R-554M I/O CONTROL
IC513 S-80546NCB RESET
IC516 S-80546NCB MUTE COMPARATOR
IC301 PCM55MP-5 D/A CONVERTER
IC302 TC40538F ANALOG SWITCH
IC303 TC40538F ANALOG SWITCH
IC304 μPC456092 TONE AMP
IC201 M5203FP AMP
IC202 M5203FP AMP
IC101 M5203FP AMP
IC102 M5203FP AMP
[DISPLAY BOARD(I/7)]
[VOL BOARD(I/3)]
[LED F] BOARD
[SET E] BOARD
[LED D] BOARD
[SET D] BOARD
RMS SHUF
1 ALL
INTRO
DISC
REMAIN
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Note: Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
DC-DC CONVERTER UNIT
BACK UP
END
ACC

CDX-80

SECTION 4
EXPLODED VIEWS AND PARTS LIST

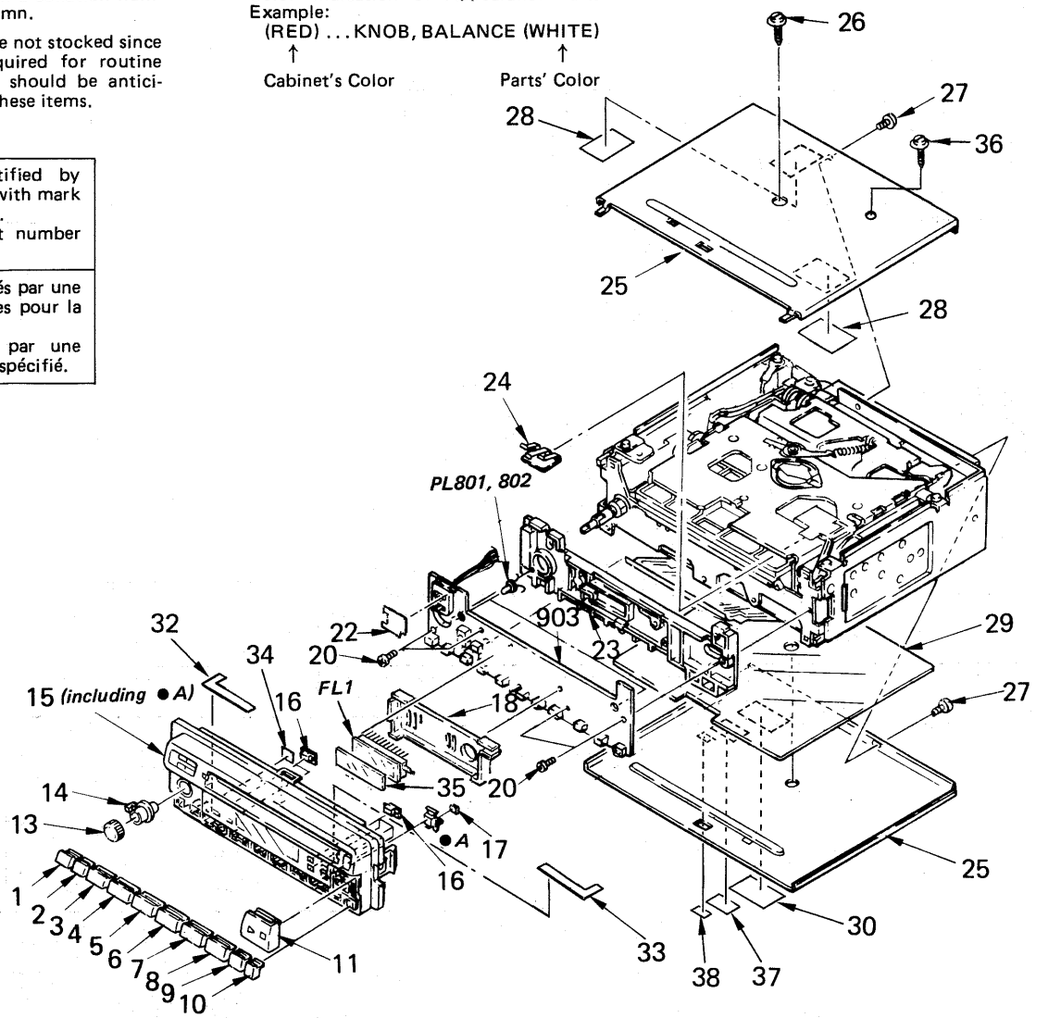
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(1)

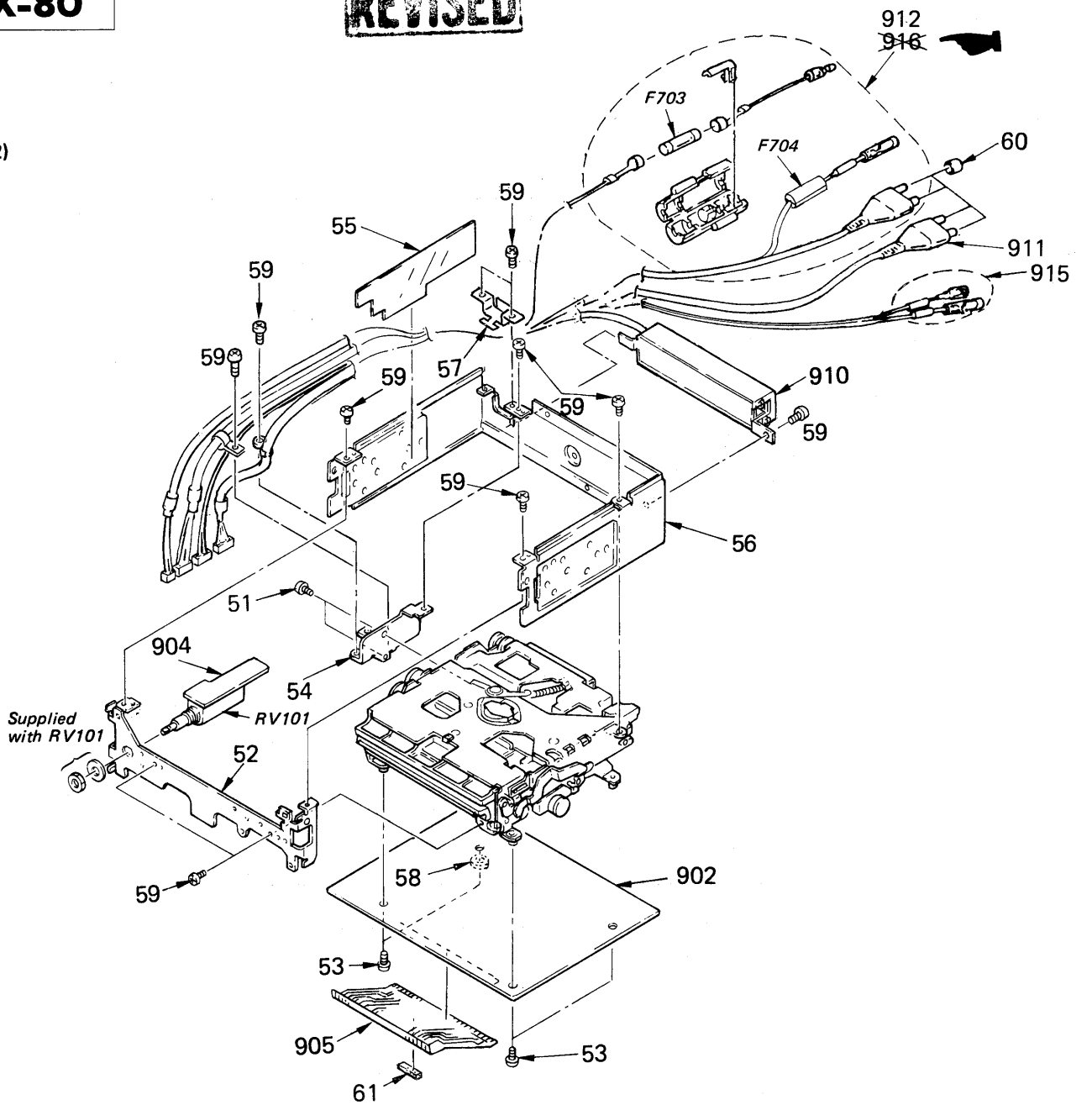


No.	Part No.	Description	Remarks
1	3-339-421-31	BUTTON, SHUFFLE	
2	3-339-420-61	BUTTON, INTRO	
3	3-339-418-01	BUTTON, PRESET 1	
4	3-339-418-11	BUTTON, PRESET 2	
5	3-339-418-21	BUTTON, PRESET 3	
6	3-339-418-31	BUTTON, PRESET 4	
7	3-339-418-41	BUTTON, PRESET 5	
8	3-339-418-51	BUTTON, PRESET 6	
9	3-339-420-51	BUTTON, AMS (⏮)	
10	3-339-419-21	BUTTON, AMS (⏭)	
11	3-339-436-01	BUTTON, PLAY	
13	X-3339-402-1	KNOB ASSY, VOL	
14	3-339-401-01	KNOB, BALANCE	
15	X-3320-577-1	PIECE ASSY, NOSE	
16	3-339-405-01	BUTTON (A)	
17	9-911-844-XX	SPACER (B)	
18	*3-339-491-01	HOLDER, FL TUBE	
20	7-621-255-65	SCREW +P 2X10	

No.	Part No.	Description	Remarks
22	3-342-602-01	SHEET (B), BARREL	
23	3-339-439-01	HOLDER, PC BOARD	
24	3-339-450-01	SPRING	
25	*3-339-425-12	LID	
26	3-339-408-01	SCREW, TRANSPORT	
27	7-621-773-86	SCREW +PTT 2.6X4 (S)	
28	*3-339-458-01	SHEET, INSULATING, MD	
29	*3-339-407-01	SHEET, INSULATING	
30	*3-330-987-01	(US,E,AEP)...LABEL, MODEL NUMBER (U)	
	*3-342-615-01	(Canadian)...LABEL, MODEL NUMBER	
32	3-342-607-01	SHEET (L), BARREL	
33	3-342-606-01	SHEET (R), BARREL	
34	*3-339-463-01	SHEET, BARREL	
35	*3-339-490-01	SHEET, FL	
36	7-628-254-60	SCREW, PSW 2.6X8	
37	*4-885-838-01	(AEP).....LABEL, CLASS 1	
38	3-342-616-01	(AEP).....LABEL, SP	
903	*1-623-980-11	PC BOARD, DISPLAY	
FL1	1-519-435-11	INDICATOR TUBE, FLUORESCENT	
PL801	1-518-615-11	LAMP, PILOT	
PL802	1-518-615-11	LAMP, PILOT	

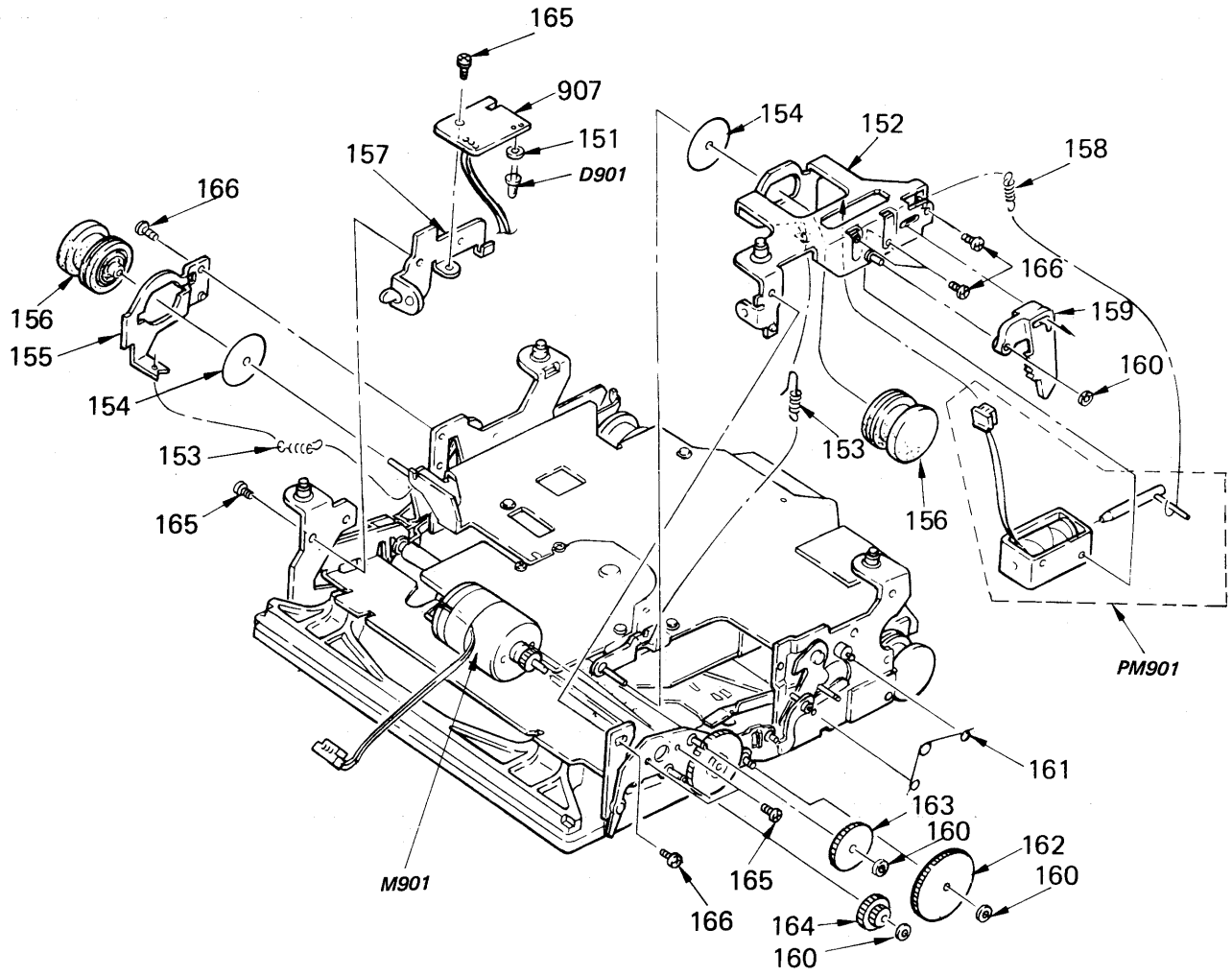
REVISED

(2)



No.	Part No.	Description	Remarks
51	7-621-773-86	SCREW +PTT 2.6X4 (S)	
52	*3-339-422-01	BRACKET (A)	
53	7-621-770-87	SCREW +B 2.6X5	
54	*3-339-406-01	BRACKET (B)	
55	*3-339-468-01	SPACER, SIDE	
56	*3-339-435-01	CHASSIS	
57	*3-330-993-01	RETAINER, CORD	
58	7-688-003-01	W 3, SMALL	
59	7-621-259-45	+PTT 2.6X6	
60	3-339-410-01	COVER, PIN JACK	
61	*3-330-948-01	SPACER	
902	*A-3260-652-A	MOUNTED PCB, MAIN	
904	*1-623-981-11	PC BOARD, VOLUME	
905	*1-624-150-11	PC BOARD, TRANSLATION	
910	1-464-852-11	CONVERTER, DC-DC	
911	1-559-520-11	CORD (WITH JACK)	
912	1-559-471-11	CORD (WITH JACK)	
915	1-559-521-11	CORD (WITH TERMINAL)	
~~916~~	~~1-559-470-11~~	~~CORD (WITH CONNECTOR)~~	~~F703~~

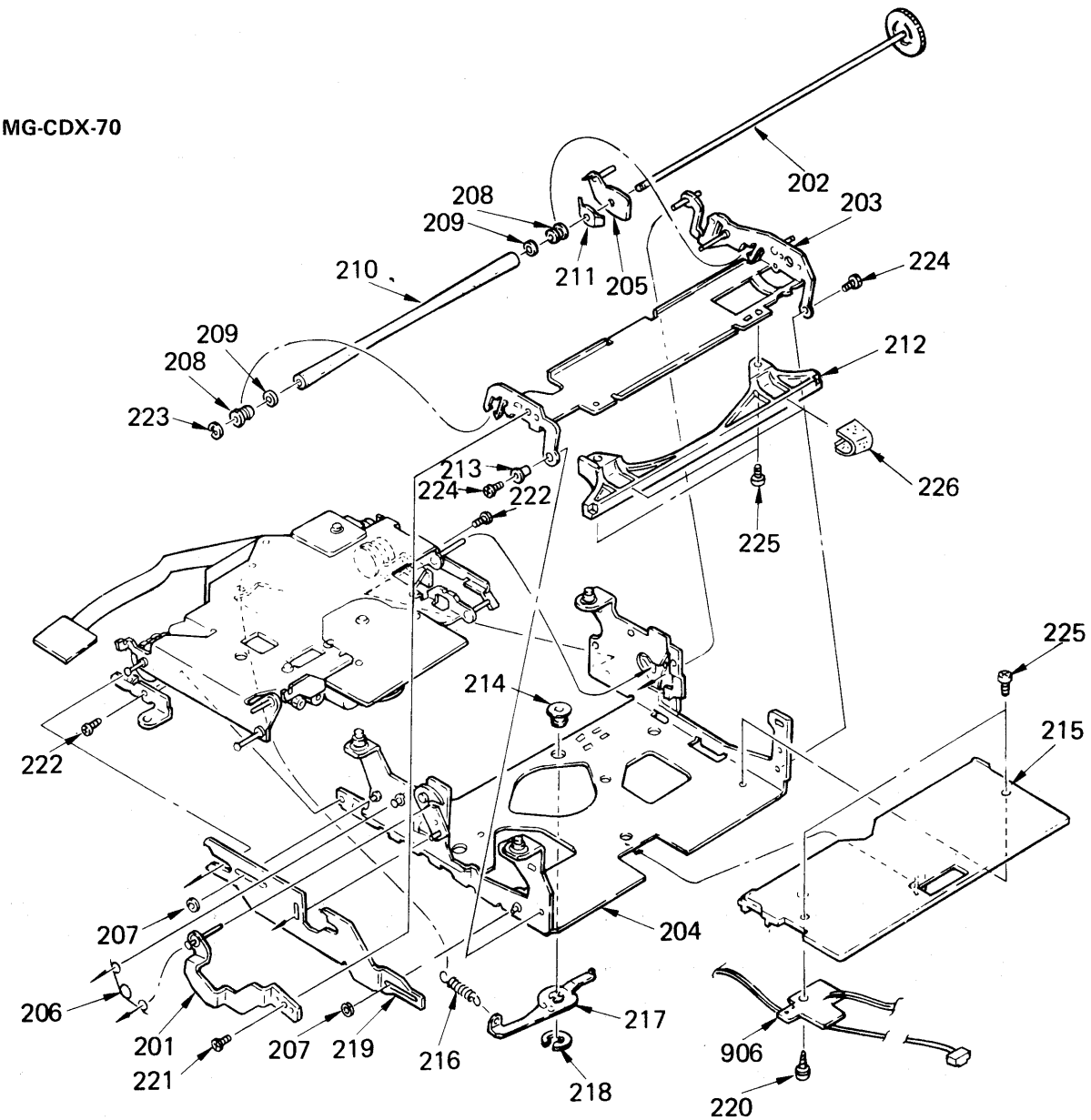
(3) MG-CDX-70



No.	Part No.	Description	Remarks
151	*3-330-944-01	SPACER (LED)	
152	X-3320-558-1	BRACKET (B) (2)ASSY, INSULATOR	
153	3-330-916-01	SPRING, TENSION	
154	3-323-263-01	WASHER, TEFLON	
155	*3-330-943-01	BRACKET (A) (2), INSULATOR	
156	3-330-929-01	DAMPER (S), HYPER	
157	*3-330-919-01	BRACKET, LED PC BOARD	
158	*3-323-246-01	SPRING, TENSION	
159	3-330-930-01	RACK	
160	3-573-936-00	STOPPER, REEL	

No.	Part No.	Description	Remarks
161	3-330-917-01	SPRING (S)	
162	3-320-552-01	GEAR, DOWN	
163	3-330-904-01	GEAR (B2)	
164	3-330-903-01	GEAR (A2)	
165	7-628-253-00	SCREW +PS 2X4	
166	7-627-554-07	SCREW, PRECISION +P 2X2.2	
907	*1-622-018-11	PC BOARD, LED (D)	
M901	X-3320-565-1	MOTOR ASSY, LOADING	
PM901	1-454-435-11	SOLENOID, PLUNGER	

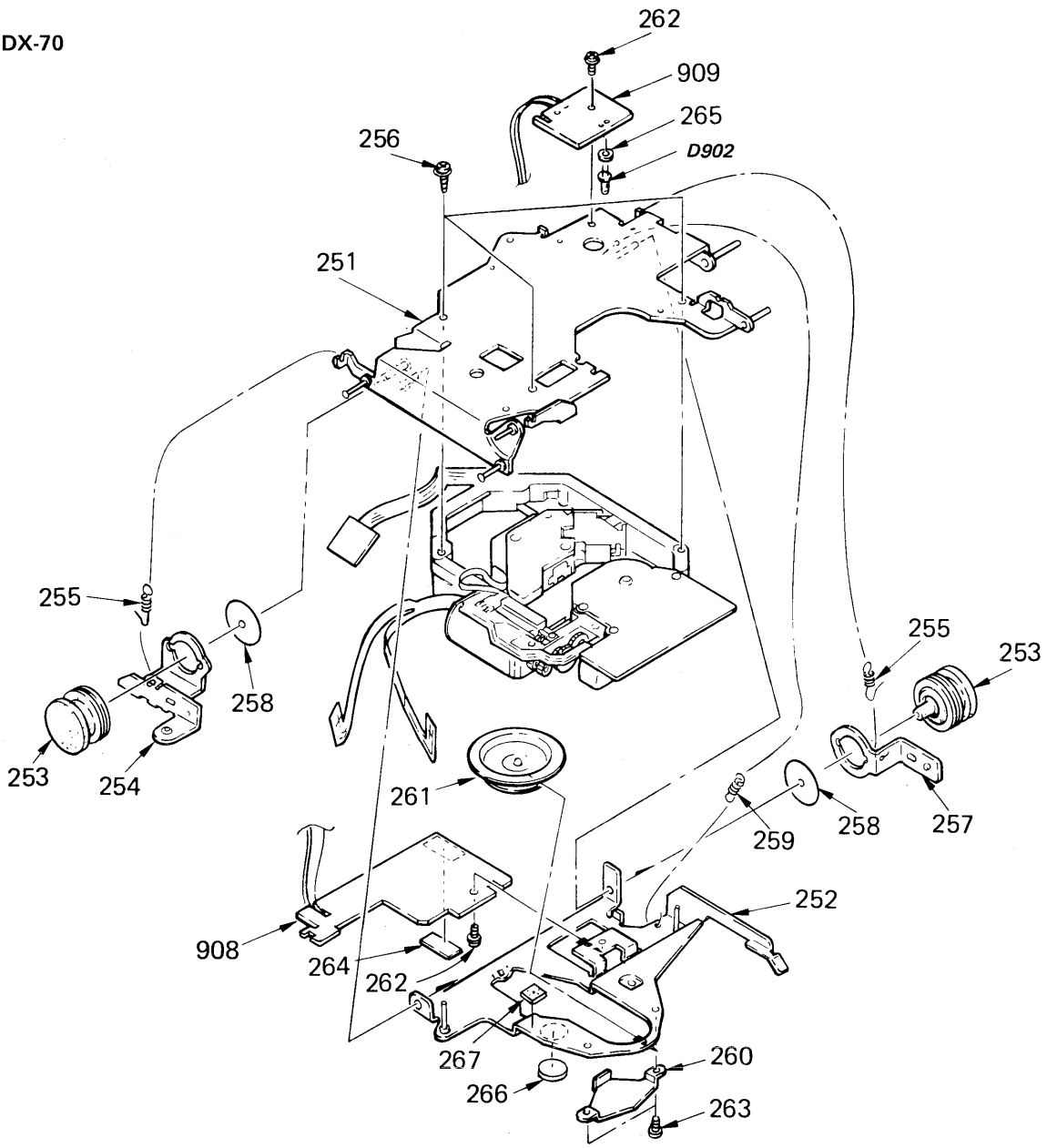
(4) MG-CDX-70



No.	Part No.	Description	Remarks
201	*X-3320-559-1	ARM (S) ASSY, ASSIST	
202	X-3320-566-1	SHAFT ASSY, ROLLER	
203	X-3320-563-1	ARM (S2) ASSY, DRIVING ROLLER	
204	*X-3320-562-1	FRAME (S2) ASSY, MD	
205	X-3320-557-1	LEVER (S) ASSY, FRICTION	
206	3-330-917-01	SPRING (S)	
208	3-320-560-01	BEARING (LOWER)	
209	3-701-438-31	WASHER	
210	3-323-231-02	ROLLER (LOWER)	
211	3-330-918-01	SPRING (S)	
212	*3-330-937-01	SHUTTER, DISK	
213	3-323-229-01	SHAFT (RIGHT), ROLLER ARM	
214	*3-329-899-01	SHAFT, ANGLE SELECTOR	

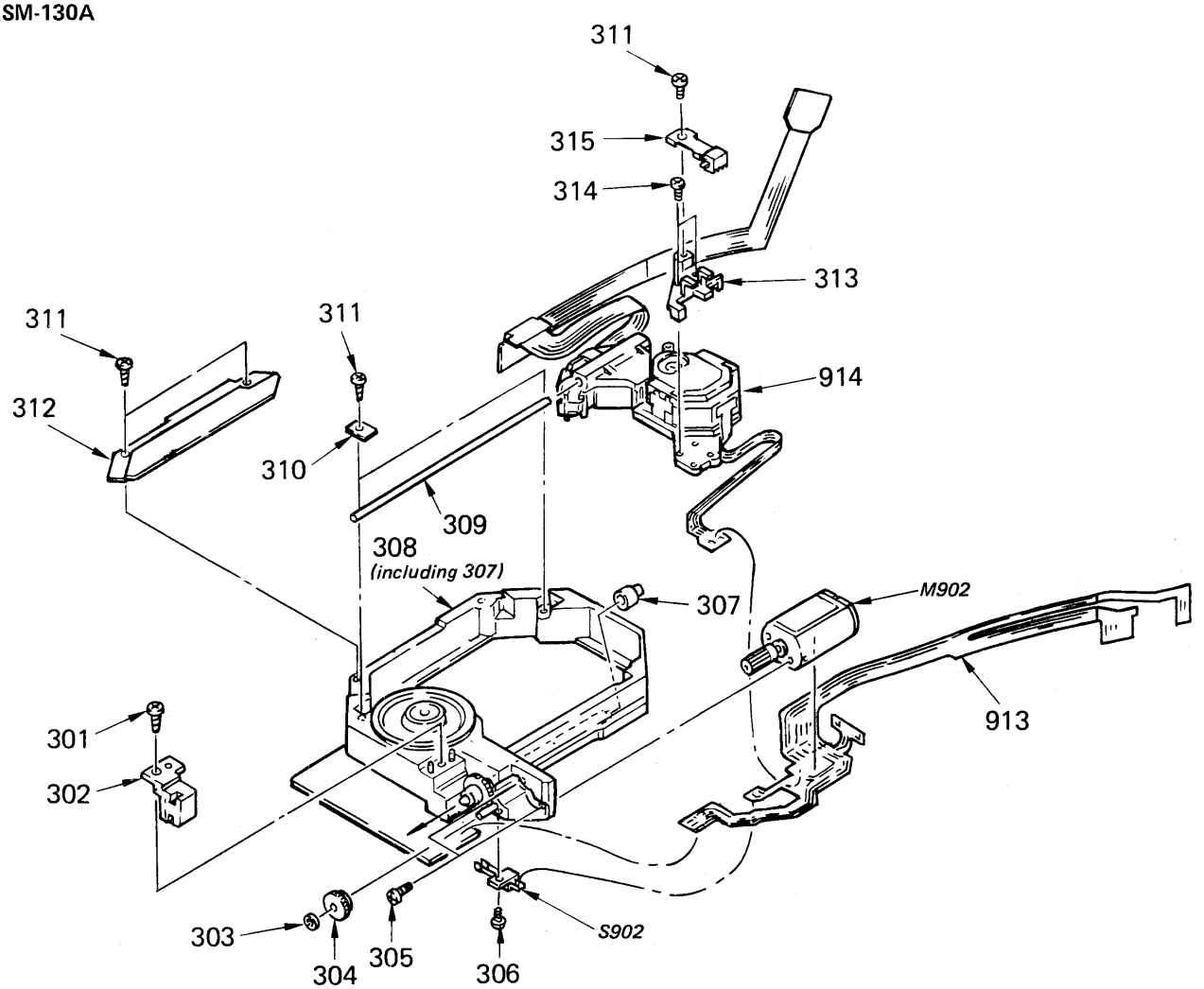
No.	Part No.	Description	Remarks
215	*3-330-934-01	GUIDE, SUPER DISK	
216	3-330-915-01	SPRING, TENSION	
217	*3-330-902-01	SELECTOR, FITTING SQUARE	
218	7-624-109-04	RETAINING, RING E-5	
219	*3-330-928-01	HOOK (B) (S), LOCK	
220	7-685-103-14	+ PTPWH (2X5)	
221	7-628-253-00	SCREW +PS 2X4	
222	7-627-554-07	SCREW, PRECISION +P 2X2.2	
223	7-624-104-04	STOP RING 2.0, TYPE -E	
224	7-627-452-38	SCREW, PRECISION +K 2X5	
225	7-621-255-25	SCREW +P 2X4	
226	*3-330-980-01	SHEET, SHUTTER	
906	*1-622-017-11	PC BOARD, DET (D)	

(5) MG-CDX-70



No.	Part No.	Description	Remarks
251	*X-3320-564-1	CHASSIS ASSY, MD FITTING	
252	X-3320-561-1	ARM (2) ASSY, CHUCKING	
253	3-330-929-01	DAMPER (S), HYPER	
254	*3-330-907-01	BRACKET (C) (2), INSULATOR	
255	3-330-916-01	SPRING, TENSION	
256	7-685-103-14	+ PTPWH (2X5)	
257	*3-330-908-01	BRACKET (D) (2), INSULATOR	
258	3-323-263-01	WASHER, TEFLON	
259	3-330-920-01	SPRING (CHUCKING), TENSION	
260	3-330-905-01	RETAINER (S), THRUST	
261	3-330-931-01	PLATE (S), CHUCK	
262	7-628-253-00	SCREW +PS 2X4	
263	7-627-552-18	SCREW, PRECISION +P 1.7X1.6	
264	*3-330-951-01	SHEET, INSULATING, DET (E)	
265	*3-330-944-01	SPACER (LED)	
266	3-323-290-01	CUSHION	
267	*3-330-979-01	SHEET (C.A.), PROTECTION	
908	*1-622-019-11	PC BOARD, DET (E)	
909	*1-622-020-11	PC BOARD, LED (E)	

(6) KSM-130A



No.	Part No.	Description	Remarks
301	7-685-203-19	SCREW +K 2X5 TYPE2 NON-SLIT	
302	X-2640-611-1	RETAINER ASSY, THRUST	
303	3-321-813-01	WASHER, COTTER POLYETHYLENE	
304	2-640-625-01	GEAR (B)	
305	7-627-554-17	PRECISION SCREW +P 2X3.5 TYPE 3	
306	2-640-620-03	SCREW (B) (1.4X3), TAPPING	
307	2-640-629-02	RETAINER (C), THRUST	
308	X-3320-567-1	CHASSIS ASSY, MD SLED	307
309	*2-640-632-01	SHAFT, GUIDE	
310	2-640-645-01	RETAINER, GUIDE SHAFT	

No.	Part No.	Description	Remarks
311	7-685-102-19	SCREW +P 2X4 TYPE2 NON-SLIT	
312	2-640-623-01	COVER, MD	
313	2-640-638-01	BEARING, FEED GUIDE	
314	7-627-852-17	+P 1.7X4	
315	2-640-622-01	NUT, FEED	
913	1-621-406-11	PC BOARD, MOTOR FLEXIBLE	
914	⚠8-848-067-01	PICKUP, OPTICS KSS-1608	
M902	X-3320-568-1	MOTOR ASSY, SLED	
S902	1-554-938-11	SWITCH, LEAF (LIMIT)	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

(FORMER TYPE): US, E MODEL
(NEW TYPE): US, E, CANADIAN, AEP MODEL

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
902	*A-3260-652-A	MOUNTED PCB, MAIN			
903	*1-623-980-11	PC BOARD, DISPLAY			
904	*1-623-981-11	PC BOARD, VOLUME			
905	*1-624-150-11	PC BOARD, TRANSLATION			
906	*1-622-017-11	PC BOARD, DET (D)			
907	*1-622-018-11	PC BOARD, LED (D)			
908	*1-622-019-11	PC BOARD, DET (E)			
909	*1-622-020-11	PC BOARD, LED (E)			
910	1-464-852-11	CONVERTER, DC-DC			
911	1-559-520-11	CORD (WITH JACK)			
912	1-559-471-11	CORD (WITH JACK)			
913	1-621-406-11	PC BOARD, MOTOR FLEXIBLE			
914	⚠8-848-067-01	PICKUP, OPTICS KSS-160B			
915	1-559-521-11	CORD (WITH TERMINAL)			
916	1-559-470-11	CORD (WITH CONNECTOR)			
C101	1-163-189-00	CERAMIC CHIP	220PF	5%	50V
C102	1-124-767-00	ELECT	2.2MF	20%	50V
C103	1-163-175-00	CERAMIC CHIP	56PF	5%	50V
C104	1-163-211-00	CERAMIC CHIP	0.0018MF	5%	50V
C105	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C106	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C107	1-163-188-00	CERAMIC CHIP	200PF	5%	50V
C108	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C109	1-124-767-00	ELECT	2.2MF	20%	50V
C110	1-124-270-11	ELECT	0.47MF	20%	50V
C111	1-124-967-11	ELECT	10MF	20%	10V
C112	1-130-479-00	FILM	0.0047MF	5%	50V
C113	1-136-156-00	FILM	0.018MF	5%	50V
C114	1-136-158-00	FILM	0.027MF	5%	50V
C115	1-136-166-00	FILM	0.12MF	5%	50V
C117	1-124-767-00	ELECT	2.2MF	20%	50V
C120	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C121	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C126	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C127	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C128	1-163-173-00	(NEW TYPE)...	CERAMIC CHIP 47PF	5%	50V
C201	1-163-189-00	CERAMIC CHIP	220PF	5%	50V
C202	1-124-767-00	ELECT	2.2MF	20%	50V
C203	1-163-175-00	CERAMIC CHIP	56PF	5%	50V
C204	1-163-211-00	CERAMIC CHIP	0.0018MF	5%	50V
C205	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C206	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C207	1-163-188-00	CERAMIC CHIP	200PF	5%	50V
C208	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C209	1-124-767-00	ELECT	2.2MF	20%	50V
C210	1-124-270-11	ELECT	0.47MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C211	1-124-967-11	ELECT	10MF	20%	10V
C212	1-130-479-00	FILM	0.0047MF	5%	50V
C213	1-136-156-00	FILM	0.018MF	5%	50V
C214	1-136-158-00	FILM	0.027MF	5%	50V
C215	1-136-166-00	FILM	0.12MF	5%	50V
C217	1-124-767-00	ELECT	2.2MF	20%	50V
C220	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C221	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C226	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C227	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C228	1-163-173-00	(NEW TYPE)...	CERAMIC CHIP 47PF	5%	50V
C301	1-124-224-00	ELECT	47MF	20%	6.3V
C302	1-124-224-00	ELECT	47MF	20%	6.3V
C303	1-124-224-00	ELECT	47MF	20%	6.3V
C304	1-124-224-00	ELECT	47MF	20%	6.3V
C309	1-124-224-00	ELECT	47MF	20%	6.3V
C310	1-124-224-00	ELECT	47MF	20%	6.3V
C311	1-124-224-00	ELECT	47MF	20%	6.3V
C312	1-124-224-00	ELECT	47MF	20%	6.3V
C313	1-124-442-00	ELECT	330MF	20%	6.3V
C314	1-124-442-00	ELECT	330MF	20%	6.3V
C315	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C316	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C501	1-136-171-00	FILM	0.033MF	5%	50V
C502	1-136-153-00	FILM	0.01MF	5%	50V
C503	1-136-153-00	FILM	0.01MF	5%	50V
C505	1-126-123-11	ELECT	56MF	20%	6.3V
C506	1-136-171-00	FILM	0.033MF	5%	50V
C507	1-124-224-00	ELECT	47MF	20%	6.3V
C508	1-124-465-00	ELECT	0.47MF	20%	50V
C509	1-136-153-00	FILM	0.01MF	5%	50V
C510	1-126-123-11	ELECT	56MF	20%	6.3V
C511	1-124-224-00	ELECT	47MF	20%	6.3V
C512	1-136-165-00	FILM	0.1MF	5%	50V
C513	1-136-165-00	FILM	0.1MF	5%	50V
C514	1-136-165-00	FILM	0.1MF	5%	50V
C515	1-131-368-00	TANTALUM	3.3MF	10%	16V
C516	1-124-224-00	ELECT	47MF	20%	6.3V
C517	1-136-165-00	FILM	0.1MF	5%	50V
C519	1-136-165-00	FILM	0.1MF	5%	50V
C520	1-102-947-00	CERAMIC	10PF	0.25PF	50V
C521	1-136-175-00	FILM	0.068MF	5%	50V
C522	1-124-584-00	ELECT	100MF	20%	6.3V
C523	1-124-584-00	ELECT	100MF	20%	6.3V
C524	1-124-584-00	ELECT	100MF	20%	6.3V
C525	1-124-584-00	ELECT	100MF	20%	6.3V

REVISED

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C526	1-124-258-00	ELECT	3.3MF	20%	25V
C526	1-124-258-00	ELECT	3.3MF	20%	25V
C527	1-124-234-00	ELECT	22MF	20%	10V
C528	1-124-224-00	ELECT	47MF	20%	6.3V
C529	1-124-224-00	ELECT	47MF	20%	6.3V
C530	1-102-074-00	CERAMIC	0.001MF	10%	50V
C531	1-124-465-00	ELECT	0.47MF	20%	50V
C532	1-136-171-00	FILM	0.033MF	5%	50V
C533	1-130-475-00	FILM	0.0022MF	5%	50V
C534	1-136-156-00	FILM	0.018MF	5%	50V
C535	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C536	1-124-224-00	ELECT	47MF	20%	6.3V
C537	1-162-568-11	CERAMIC CHIP	0.33MF		25V
C538	1-130-479-00	FILM	0.0047MF	5%	50V
C539	1-124-255-00	ELECT	1MF	20%	50V
C540	1-124-255-00	ELECT	1MF	20%	50V
C541	1-163-159-00	CERAMIC CHIP	12PF	5%	50V
C542	1-163-159-00	CERAMIC CHIP	12PF	5%	50V
C543	1-124-229-00	ELECT	33MF	20%	10V
C545	1-124-229-00	ELECT	33MF	20%	10V
C546	1-124-225-00	ELECT	100MF	20%	6.3V
C547	1-163-159-00	CERAMIC CHIP	12PF	5%	50V
C548	1-163-159-00	CERAMIC CHIP	12PF	5%	50V
C550	1-124-258-00	ELECT	3.3MF	20%	35V
C551	1-124-484-11	ELECT	220MF	20%	35V
C552	1-124-224-00	ELECT	47MF	20%	6.3V
C553	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C556	1-163-185-00	CERAMIC CHIP	150PF	5%	50V
C557	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C558	1-124-234-00	ELECT	22MF	20%	10V
C559	1-124-245-00	ELECT	4.7MF	20%	25V
C560	1-124-462-00	ELECT	10MF	20%	16V
C562	1-124-442-00	ELECT	330MF	20%	6.3V
C563	1-124-442-00	ELECT	330MF	20%	6.3V
C564	1-124-442-00	ELECT	330MF	20%	6.3V
C565	1-124-442-00	ELECT	330MF	20%	6.3V
C567	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C568	1-124-144-00	ELECT	220MF	20%	16V
C569	1-163-189-00	CERAMIC CHIP	220PF	10%	50V
C570	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C572	1-163-165-00	CERAMIC CHIP	20PF	5%	50V
C573	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C574	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C575	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C576	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C577	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C578	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C580	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C581	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C582	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C583	1-131-375-00	TANTALUM	4.7MF	20%	10V
C584	1-124-463-00	ELECT	0.1MF	20%	50V
C586	1-163-152-00	CERAMIC CHIP	5PF		50V
C591	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C592	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C593	1-123-820-00	ELECT	33MF	20%	16V
C594	1-163-183-00	CERAMIC CHIP	120PF	5%	50V
C595	1-163-183-00	CERAMIC CHIP	120PF	5%	50V
C596	1-163-077-00	(NEW TYPE)...CERAMIC CHIP	0.1MF		50V
CNP301*1-564-007-00		PIN, CONNECTOR 8P			
CNP302*1-564-006-51		PIN, CONNECTOR 7P			
CNP501*1-563-855-11		HOUSING, CONNECTOR 12P			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CNP502	1-562-630-11	SOCKET, CONNECTOR
CNP503	1-562-631-11	SOCKET, CONNECTOR
CNP504*1-564-015-00		PIN, CONNECTOR 5P
CNP505*1-564-013-00		PIN, CONNECTOR 3P
CNP506*1-564-012-00		PIN, CONNECTOR 2P
CNP507*1-564-006-51		PIN, CONNECTOR 7P
CNP508*1-564-007-00		PIN, CONNECTOR 8P
CNP509*1-564-008-51		PIN, CONNECTOR 9P
CNP512*1-564-003-00		PIN, CONNECTOR 4P
CNP514*1-564-011-51		PIN, CONNECTOR 12P
D502	8-719-940-25	DIODE DSC010
D504	8-719-200-02	DIODE 10E-2
D505	8-719-100-35	DIODE RD5.6EB2
D506	8-719-911-06	DIODE 1SS106
D507	8-719-940-25	DIODE DSC010
D508	8-719-940-35	DIODE DCA015
D509	8-719-940-35	DIODE DCA015
D510	8-719-110-03	DIODE RD7.5ES-B2
D511	8-719-940-35	DIODE DCA015
D512	8-719-920-04	DIODE ERB12-04
D513	8-719-703-01	DIODE DSB015-TA
D514	8-719-801-67	(NEW TYPE)...DIODE DLS1585
D807	8-719-404-22	DIODE LN1451C
D808	8-719-404-22	DIODE LN1451C
D815	8-719-404-22	DIODE LN1451C
D816	8-719-404-22	DIODE LN1451C
D817	8-719-404-22	DIODE LN1451C
D818	8-719-404-22	DIODE LN1451C
D819	8-719-404-22	DIODE LN1451C
D820	8-719-404-22	DIODE LN1451C
D821	8-719-404-22	DIODE LN1451C
D822	8-719-404-22	DIODE LN1451C
D823	8-719-404-22	DIODE LN1451C
D824	8-719-404-22	DIODE LN1451C
D825	8-719-404-22	DIODE LN1451C
D830	8-719-110-07	DIODE RD10ES-B2
D901	8-719-812-31	DIODE TLR123
D902	8-719-812-31	DIODE TLR123
F701	1-532-419-00	FUSE, 3.15A
F702	1-532-360-XX	FUSE, 1A
F703	1-532-360-XX	FUSE, 1A
F704	1-532-404-11	FUSE, 0.1A
FL1	1-519-435-11	INDICATOR TUBE, FLUORESCENT
IC101	8-759-604-64	IC M5203FP
IC102	8-759-604-64	IC M5203FP
IC201	8-759-604-64	IC M5203FP
IC202	8-759-604-64	IC M5203FP
IC301	8-759-924-49	IC PCM55HP-S
IC302	8-759-200-81	IC TC4053BF
IC303	8-759-200-81	IC TC4053BF
IC304	8-759-109-70	IC UPC4560G2
IC501	8-759-937-87	IC CXA1081Q
IC502	8-752-031-61	IC CXA1082AQ
IC503	8-752-322-32	IC CXD1130Q
IC504	8-759-940-89	IC L272M
IC505	8-759-942-55	IC MB88505H-530M
IC506	8-759-970-36	IC MB88505-589M
IC507	8-752-802-74	IC LC3516AML-15

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC508	8-759-604-67	IC M54940FP
IC512	8-759-940-80	IC MB88201-534M
IC514	8-759-940-45	IC S-8054HN-CB
IC515	8-759-940-45	IC S-8054HN-CB
IC516	8-759-940-45	IC S-8054HN-CB
JW502	1-249-366-11	CARBON MELF 0 5% 1/5W
JW503	1-249-366-11	CARBON MELF 0 5% 1/5W
JW504	1-249-366-11	CARBON MELF 0 5% 1/5W
JW507	1-249-366-11	CARBON MELF 0 5% 1/5W
L301	1-410-198-51	INDUCTOR CHIP 3.3UH
L302	1-410-198-51	INDUCTOR CHIP 3.3UH
L501	1-410-336-11	MICRO INDUCTOR 220UH
L502	1-410-204-41	INDUCTOR CHIP 10UH
L504	1-410-198-51	INDUCTOR CHIP 3.3UH
L505	1-410-192-51	INDUCTOR CHIP 1UH
L506	1-410-204-31	(NEW TYPE)...INDUCTOR CHIP 10μH
M901	X-3320-565-1	MOTOR ASSY, LOADING
M902	X-3320-568-1	MOTOR ASSY, SLED
PL801	1-518-615-11	LAMP, PILOT
PL802	1-518-615-11	LAMP, PILOT
PM901	1-454-435-11	SOLENOID, PLUNGER
Q501	8-729-807-50	TRANSISTOR 2SD1623
Q502	8-729-807-33	TRANSISTOR 2SB1123
Q503	8-729-807-50	TRANSISTOR 2SD1623
Q504	8-729-807-33	TRANSISTOR 2SB1123
Q505	8-729-100-76	TRANSISTOR 2SA812
Q506	8-729-807-33	TRANSISTOR 2SB1123
Q507	8-729-271-23	TRANSISTOR 2SC2712
Q508	8-729-805-65	TRANSISTOR 2SA1344
Q509	8-729-805-65	TRANSISTOR 2SA1344
Q510	8-729-805-45	TRANSISTOR 2SC3395
Q511	8-729-805-41	TRANSISTOR 2SC3398
Q516	8-729-807-50	TRANSISTOR 2SD1623
Q517	8-729-100-76	TRANSISTOR 2SA812
Q518	8-729-100-66	TRANSISTOR 2SC1623
Q519	8-729-100-66	TRANSISTOR 2SC1623
Q520	8-729-100-66	TRANSISTOR 2SC1623
Q522	8-729-805-45	TRANSISTOR 2SC3395
Q523	8-729-904-63	TRANSISTOR DTB123YK
Q524	8-729-805-41	TRANSISTOR 2SC3398
Q525	8-729-904-63	TRANSISTOR DTB123YK
Q526	8-729-271-23	TRANSISTOR 2SC2712
Q528	8-729-805-41	TRANSISTOR 2SC3398
Q529	8-729-805-41	TRANSISTOR 2SC3398
Q530	8-729-805-41	TRANSISTOR 2SC3398
Q531	8-729-805-41	TRANSISTOR 2SC3398
Q532	8-729-805-41	TRANSISTOR 2SC3398
Q536	8-729-904-48	TRANSISTOR DTB113EK
Q537	8-729-904-48	TRANSISTOR DTB113EK
Q538	8-729-904-78	TRANSISTOR DTD113ZK
Q539	8-729-904-78	TRANSISTOR DTD113ZK
Q540	8-729-100-66	TRANSISTOR 2SC1623
Q541	8-729-805-64	TRANSISTOR 2SA1510
Q542	8-729-900-53	TRANSISTOR DTC114EK
Q801	8-729-807-50	TRANSISTOR 2SD1623
Q901	8-729-402-08	PN147-LF-R
Q902	8-729-402-08	PN147-LF-R

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R101	1-249-425-11	CARBON MELF 4.7K 5% 1/5W
R102	1-249-432-11	CARBON MELF 18K 5% 1/5W
R103	1-215-456-00	CARBON MELF 30K 5% 1/5W
R104	1-249-435-11	CARBON MELF 33K 5% 1/5W
R105	1-249-435-11	CARBON MELF 33K 5% 1/5W
R106	1-249-435-11	CARBON MELF 33K 5% 1/5W
R108	1-215-444-00	CARBON MELF 9.1K 5% 1/5W
R109	1-249-432-11	CARBON MELF 18K 5% 1/5W
R110	1-249-432-11	CARBON MELF 18K 5% 1/5W
R111	1-215-444-00	CARBON MELF 9.1K 5% 1/5W
R112	1-249-438-11	CARBON MELF 56K 5% 1/5W
R114	1-249-417-11	CARBON MELF 1K 5% 1/5W
R116	1-215-485-00	CARBON MELF 470K 5% 1/5W
R117	1-249-413-11	CARBON MELF 470 5% 1/5W
R118	1-249-430-11	CARBON MELF 12K 5% 1/5W
R119	1-215-432-00	CARBON MELF 3K 5% 1/5W
R120	1-215-493-00	CARBON MELF 1M 5% 1/5W
R122	1-249-413-11	CARBON MELF 470 5% 1/5W
R123	1-216-242-00	METAL CHIP 68K 5% 1/8W
R124	1-216-225-00	METAL CHIP 13K 5% 1/8W
R126	1-249-425-11	(FORMER TYPE)...CARBON MELF 4.7K 5% 1/5W
R126	1-249-421-11	(NEW TYPE).....CARBON MELF 2.2K 5% 1/5W
R127	1-249-417-11	CARBON MELF 1K 5% 1/5W
R128	1-249-437-11	CARBON MELF 47K 5% 1/5W
R129	1-249-416-11	CARBON MELF 820 5% 1/5W
R131	1-249-438-11	(NEW TYPE).....CARBON MELF 56K 5% 1/5W
R201	1-249-425-11	CARBON MELF 4.7K 5% 1/5W
R202	1-249-432-11	CARBON MELF 18K 5% 1/5W
R203	1-215-456-00	CARBON MELF 30K 5% 1/5W
R204	1-249-435-11	CARBON MELF 33K 5% 1/5W
R205	1-249-435-11	CARBON MELF 33K 5% 1/5W
R206	1-249-435-11	CARBON MELF 33K 5% 1/5W
R208	1-215-444-00	CARBON MELF 9.1K 5% 1/5W
R209	1-249-432-11	CARBON MELF 18K 5% 1/5W
R210	1-249-432-11	CARBON MELF 18K 5% 1/5W
R211	1-215-444-00	CARBON MELF 9.1K 5% 1/5W
R212	1-249-438-11	CARBON MELF 56K 5% 1/5W
R214	1-249-417-11	CARBON MELF 1K 5% 1/5W
R216	1-215-485-00	CARBON MELF 470K 5% 1/5W
R217	1-249-413-11	CARBON MELF 470 5% 1/5W
R218	1-249-430-11	CARBON MELF 12K 5% 1/5W
R219	1-215-432-00	CARBON MELF 3K 5% 1/5W
R220	1-215-493-00	CARBON MELF 1M 5% 1/5W
R222	1-249-413-11	CARBON MELF 470 5% 1/5W
R223	1-216-242-00	METAL CHIP 68K 5% 1/8W
R224	1-216-225-00	METAL CHIP 13K 5% 1/8W
R226	1-249-425-11	(FORMER TYPE)...CARBON MELF 4.7K 5% 1/5W
R226	1-249-421-11	(NEW TYPE).....CARBON MELF 2.2K 5% 1/5W
R227	1-249-417-11	CARBON MELF 1K 5% 1/5W
R228	1-249-437-11	CARBON MELF 47K 5% 1/5W
R229	1-249-416-11	CARBON MELF 820 5% 1/5W
R231	1-249-438-11	(NEW TYPE).....CARBON MELF 56K 5% 1/5W
R301	1-249-429-11	CARBON MELF 10K 5% 1/5W
R303	1-249-425-11	CARBON MELF 4.7K 5% 1/5W
R304	1-249-425-11	CARBON MELF 4.7K 5% 1/5W
R305	1-247-831-11	CARBON 1K
R501	1-215-446-00	(FORMER TYPE)...CARBON MELF 11K 5% 1/5W
R501	1-249-431-11	(NEW TYPE).....CARBON MELF 15K 5% 1/5W
R503	1-215-448-00	CARBON MELF 13K 5% 1/5W
R504	1-249-421-11	CARBON MELF 2.2K 5% 1/5W
R505	1-249-401-11	CARBON MELF 47 5% 1/5W
R506	1-249-417-11	CARBON MELF 1K 5% 1/5W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R507	1-215-394-00	CARBON MELF	75	5%	1/5W
R508	1-249-429-11	CARBON MELF	10K	5%	1/5W
R509	1-249-441-11	CARBON MELF	100K	5%	1/5W
R510	1-215-446-00	CARBON MELF	11K	5%	1/5W
R511	1-215-474-00	CARBON MELF	160K	5%	1/5W
R512	1-249-429-11	CARBON MELF	10K	5%	1/5W
R513	1-215-485-00	CARBON MELF	470K	5%	1/5W
R514	1-249-440-11	CARBON MELF	82K	5%	1/5W
R515	1-249-438-11	CARBON MELF	56K	5%	1/5W
R516	1-249-440-11	CARBON MELF	82K	5%	1/5W
R517	1-215-471-00	CARBON MELF	120K	5%	1/5W
R518	1-249-431-11	CARBON MELF	15K	5%	1/5W
R519	1-249-428-11	CARBON MELF	8.2K	5%	1/5W
R520	1-215-486-00	CARBON MELF	510K	5%	1/5W
R521	1-249-429-11	CARBON MELF	10K	5%	1/5W
R522	1-249-437-11	CARBON MELF	47K	5%	1/5W
R523	1-249-423-11	CARBON MELF	3.3K	5%	1/5W
R524	1-215-452-00	CARBON MELF	20K	5%	1/5W
R525	1-215-493-00	CARBON MELF	1M	5%	1/5W
R526	1-249-001-00	CARBON MELF	1	5%	1/5W
R527	1-249-001-00	CARBON MELF	1	5%	1/5W
R528	1-249-001-00	CARBON MELF	1	5%	1/5W
R529	1-249-001-00	CARBON MELF	1	5%	1/5W
R530	1-215-485-00	CARBON MELF	470K	5%	1/5W
R531	1-249-429-11	CARBON MELF	10K	5%	1/5W
R533	1-249-429-11	CARBON MELF	10K	5%	1/5W
R534	1-249-441-11	CARBON MELF	100K	5%	1/5W
R535	1-249-429-11	CARBON MELF	10K	5%	1/5W
R536	1-249-441-11	CARBON MELF	100K	5%	1/5W
R537	1-249-429-11	CARBON MELF	10K	5%	1/5W
R538	1-249-429-11	CARBON MELF	10K	5%	1/5W
R542	1-215-454-00	CARBON MELF	24K	5%	1/5W
R543	1-249-429-11	CARBON MELF	10K	5%	1/5W
R544	1-249-413-11	CARBON MELF	470	5%	1/5W
R545	1-249-442-11	CARBON MELF	510	5%	1/5W
R546	1-249-417-11	CARBON MELF	1K	5%	1/5W
R547	1-249-433-11	CARBON MELF	22K	5%	1/5W
R548	1-249-417-11	CARBON MELF	1K	5%	1/5W
R549	1-249-433-11	CARBON MELF	22K	5%	1/5W
R550	1-249-405-11	(FORMER TYPE)... CARBON MELF	100	5%	1/5W
R551	1-249-433-11	CARBON MELF	22K	5%	1/5W
R552	1-249-437-11	CARBON MELF	47K	5%	1/5W
R553	1-249-423-11	CARBON MELF	3.3K	5%	1/5W
R554	1-249-399-11	CARBON MELF	33	5%	1/5W
R555	1-249-429-11	CARBON MELF	10K	5%	1/5W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R556	1-249-433-11	CARBON MELF	22K	5%	1/5W
R557	1-249-441-11	CARBON MELF	100K	5%	1/5W
R558	1-215-440-00	CARBON MELF	6.2K	5%	1/5W
R559	1-249-437-11	CARBON MELF	47K	5%	1/5W
R568	1-249-393-11	CARBON MELF	10	5%	1/5W
R569	1-249-393-11	CARBON MELF	10	5%	1/5W
R571	1-249-401-11	CARBON MELF	47	5%	1/5W
R572	1-249-405-11	CARBON MELF	100	5%	1/5W
R574	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R576	1-215-396-00	CARBON MELF	91	5%	1/5W
R578	1-249-428-11	CARBON MELF	8.2K	5%	1/5W
R579	1-249-422-11	CARBON MELF	2.7K	5%	1/5W
R580	1-216-198-00	METAL CHIP	1K	5%	1/8W
R581	1-215-481-00	CARBON MELF	330K	5%	1/5W
R582	1-249-429-11	CARBON MELF	10K	5%	1/5W
R583	1-249-431-11	CARBON MELF	15K	5%	1/5W
R585	1-249-436-11	CARBON MELF	39K	5%	1/5W
R586	1-216-270-00	METAL CHIP	1M	5%	1/8W
R591	1-249-426-11	(NEW TYPE).....CARBON MELF	5.6K	5%	1/5W
R592	1-249-393-11	(NEW TYPE).....CARBON MELF	10	5%	1/5W
R801	1-216-196-00	METAL CHIP	820	5%	1/8W
R802	1-216-189-00	METAL CHIP	430	5%	1/8W
R803	1-216-184-00	METAL CHIP	270	5%	1/8W
R804	1-216-184-00	METAL CHIP	270	5%	1/8W
R805	1-216-184-00	METAL CHIP	270	5%	1/8W
R806	1-216-189-00	METAL CHIP	430		
R807	1-216-163-00	METAL CHIP	36	5%	1/5W
R901	1-249-411-11	CARBON	330	5%	1/4W
R902	1-249-411-11	CARBON	330	5%	1/4W
RV101	1-237-830-11	RES, VAR, CARBON 100K/10K/10K (VOL/BAL)			
RV102	1-237-587-11	RES, VAR, SLIDE 100K/100K (TRE/BAS)			
RV501	1-228-995-00	(FORMER TYPE)...RES, ADJ, CARBON 22K			
RV501	1-228-994-00	(NEW TYPE).....RES, ADJ, CARBON 10K			
RV502	1-228-995-00	RES, ADJ, CARBON 22K			
RV503	1-228-995-00	RES, ADJ, CARBON 22K			
RV504	1-228-995-00	RES, ADJ, CARBON 22K			
RV505	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K			
RY501	1-515-519-00	RELAY			
RY502	1-515-519-00	RELAY			

REVISED

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S801	1-554-813-31	SWITCH, KEY BOARD (2)
S802	1-554-813-31	SWITCH, KEY BOARD (3)
S803	1-554-813-31	SWITCH, KEY BOARD (4)
S804	1-554-813-31	SWITCH, KEY BOARD (5)
S805	1-554-813-31	SWITCH, KEY BOARD (MEM)
S806	1-554-813-31	SWITCH, KEY BOARD (RMS)
S807	1-554-813-31	SWITCH, KEY BOARD (INTRO)
S808	1-554-813-31	SWITCH, KEY BOARD (1)
S809	1-554-813-31	SWITCH, KEY BOARD (⏮)
S810	1-554-813-31	SWITCH, KEY BOARD (⏭)
S811	1-554-813-31	SWITCH, KEY BOARD (6)
S812	1-554-813-31	SWITCH, KEY BOARD (⏪)
S813	1-554-813-31	SWITCH, KEY BOARD (⏩)
S814	1-554-813-31	SWITCH, KEY BOARD (EJECT)
S815	1-570-992-11	SWITCH, KEY BOARD (PLAY/STOP)
S816	1-554-813-31	SWITCH, KEY BOARD (SHUFFLE)
S817	1-554-813-31	SWITCH, KEY BOARD (REPEAT)
S818	1-554-813-31	SWITCH, KEY BOARD (REMAIN)
S819	1-554-813-31	SWITCH, KEY BOARD (RESET)
S901	1-570-953-11	SWITCH, PUSH (1 KEY)(SHUTTER DET)
S902	1-554-938-11	SWITCH, LEAF (LIMIT)
T501	1-447-967-11	TRANSFORMER, DC-DC CONVERTER
TH501	1-807-776-11	THERMISTOR ERT-D2FHJ802T
TH502	1-807-776-11	THERMISTOR ERT-D2FHJ802T
TH503	1-807-776-11	THERMISTOR ERT-D2FHJ802T
X501	1-567-820-11	VIBRATOR, CRYSTAL (16.9344MHz)
X502	1-567-821-11	VIBRATOR, CRYSTAL (4.194304MHz)

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-310-655-01	SUPPORT (ND), FITTING
3-315-736-21	BRACKET, NEW D
3-320-642-01	BAG (D), PROTECTION
3-323-208-01	BUSHING, RUBBER
3-323-209-01	BOLT (4-5), STUD
3-323-210-01	ADJUSTOR, STUD BOLT
3-323-217-01	HOLDER, BUSHING
3-323-219-01	FRAME, FITTING
3-330-990-01	INDIVIDUAL CARTON
3-330-992-01	CUSHION
3-335-423-01	SHEET, PROTECTION
3-339-403-01	SPRING
3-339-416-01	COLLAR
3-339-417-01	COVER
*3-339-460-01	SHAFT, ACCESSORY
3-764-831-11	(US,Canadian,E)... INSTRUCTION,FITTING CONNECTION
3-769-359-11	MANUAL, INSTRUCTION
X-3320-524-1	SCREW ASSY (A)
X-3322-201-1	SCREW ASSY (50MM), BRACKET
1-559-470-11	CORD (with connector)

TROUBLESHOOTING GUIDE

Trouble	Cause and/or remedy
No power is being supplied to the unit.	• Wrong connections • The fuse is blown.
Play does not begin.	• A disc is already loaded. ➡ Press the ▶ ■ button. • Dusty or defective disc. • The ambient temperature is more than 50°C (120°F).
The disc is automatically ejected.	• The disc is inserted down. ➡ Insert it with the labeled surface up.
Disc cannot be loaded.	• A disc is already loaded.
The operation buttons do not work.	• The built-in microprocessor has malfunctioned. ➡ Press the reset button with a pointed object.
The sound skips due to vibration.	• The shipping screw is not removed. • The unit is installed at an angle of more than 40°. • The unit is not installed on a sturdy part of the car. • Dusty or defective disc.

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Audio Group

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CDX-80

SONY®
SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

CORRECTION-2

Please correct your Service Manual.

☛ : corrected portion

PAGE	INCORRECT				CORRECT			
	Ref. No.	Part. No.	Description	Remark	Ref. No.	Part. No.	Description	Remark
42 40 (US/E)	D513	8-719-703-01	DIODE DSB015-TA		D513	8-719-940-23 ☛	DIODE DSB015-TA	

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